

Network Description Documentation

AFBX0004B

Network 10/AFBXMA04B

Network 11/AFBXMB04B

Network 12/AFBXMC04B

Network 13/AFBXMD04B



Prepared by:

USMC Network Design Facility
Marine Corps Tactical Systems Support Activity

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WARNING WARNING WARNING

Warning: Modification of this network by unauthorized personnel is in violation of the CJCSI 6232.021A (01 JUN 1998) on Deconfliction.

AFBX0004B/USMC Networks 10, 11, 12, 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

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Section 1 – OVERVIEW

1.0 Introduction

USMC Networks 10, 11, 12 and 13 are variants of Air Force network AFBX0004B that was developed to support JTIDS operations at Nellis AFB to include Green Flag, JSEAD, JEFX 2000 and daily 422 TES operations. The pulse density values for each participant are provided for the purpose of deconflicting JTIDS use within geographic areas. Special attention should be given to the following notes, warnings throughout this description and their relevance to required Deconfliction/TSDF calculations to include any use of voice with this network.

The Marine Corps Network Design Facility developed USMC Networks 10, 11, 12 and 13 as variants of AFBX0004B to allow USMC JTIDS platforms, ADCP and JTAOM, as participants in the network using time slots of other service platforms when **those platforms are not active participants**. ADCP and JTAOM time slot assignments are as follows:

- AFBXMA04B/USMC Network 10: JTAOM(1) uses JSTARS(2) time slots
- AFBXMB04B/USMC Network 11: ADCP(1) uses JSTARS(2) time slots
- AFBXMC04B/USMC Network 12: JTAOM(1) uses CRC(1) time slots
- AFBXMD04B/USMC Network 13: ADCP(1) uses CRC(2) time slots

| Original | Participants | | | |
|-----------------|------------------------------------|-----------------|-----------------|-----------------|
| | USMC Variants of Network AFBX0004B | | | |
| AFBX0004B | USMC Network 10 | USMC Network 11 | USMC Network 12 | USMC Network 13 |
| 1 - F15E(1.1.1) | 1 - F15E(1.1.1) | 1 - F15E(1.1.1) | 1 - F15E(1.1.1) | 1 - F15E(1.1.1) |
| 1 - F15(3.1.1) | 1 - F15(3.1.1) | 1 - F15(3.1.1) | 1 - F15(3.1.1) | 1 - F15(3.1.1) |
| 1 - F15F(4.1.1) | 1 - F15F(4.1.1) | 1 - F15F(4.1.1) | 1 - F15F(4.1.1) | 1 - F15F(4.1.1) |
| 1 - F15J(4.2.1) | 1 - F15J(4.2.1) | 1 - F15J(4.2.1) | 1 - F15J(4.2.1) | 1 - F15J(4.2.1) |
| 4 - F14D(1) | 4 - F14D(1) | 4 - F14D(1) | 4 - F14D(1) | 4 - F14D(1) |
| F14D(2) | F14D(2) | F14D(2) | F14D(2) | F14D(2) |
| F14D(3) | F14D(3) | F14D(3) | F14D(3) | F14D(3) |
| F14D(4) | F14D(4) | F14D(4) | F14D(4) | F14D(4) |
| 4 - FA18(1) | 4 - FA18(1) | 4 - FA18(1) | 4 - FA18(1) | 4 - FA18(1) |
| FA18(2) | FA18(2) | FA18(2) | FA18(2) | FA18(2) |
| FA18(3) | FA18(3) | FA18(3) | FA18(3) | FA18(3) |
| FA18(4) | FA18(4) | FA18(4) | FA18(4) | FA18(4) |
| 4 - F3(1) | 4 - F3(1) | 4 - F3(1) | 4 - F3(1) | 4 - F3(1) |
| F3(2) | F3(2) | F3(2) | F3(2) | F3(2) |
| F3(3) | F3(3) | F3(3) | F3(3) | F3(3) |
| F3(4) | F3(4) | F3(4) | F3(4) | F3(4) |
| 1 - B1(1) | 1 - B1(1) | 1 - B1(1) | 1 - B1(1) | 1 - B1(1) |
| 1 - B2(1) | 1 - B2(1) | 1 - B2(1) | 1 - B2(1) | 1 - B2(1) |
| 1 - F117(1) | 1 - F117(1) | 1 - F117(1) | 1 - F117(1) | 1 - F117(1) |
| 1 - B52(1) | 1 - B52(1) | 1 - B52(1) | 1 - B52(1) | 1 - B52(1) |
| 2 - RJ(1) | 2 - RJ(1) | 2 - RJ(1) | 2 - RJ(1) | 2 - RJ(1) |
| RJ(2) | RJ(2) | RJ(2) | RJ(2) | RJ(2) |
| 1 - TALON_GW(1) | 1 - TALON_GW(1) | 1 - TALON_GW(1) | 1 - TALON_GW(1) | 1 - TALON_GW(1) |

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| Original | Participants | | | |
|------------------|------------------------------------|------------------|------------------|------------------|
| | USMC Variants of Network AFBX0004B | | | |
| AFBX0004B | USMC Network 10 | USMC Network 11 | USMC Network 12 | USMC Network 13 |
| 2 – JSTARS(1) | 1 – JSTARS(1) | 1 – JSTARS(1) | 2 – JSTARS(1) | 2 – JSTARS(1) |
| JSTARS(2) | 1 – JTAOM(1) | 1 – ADCP(1) | JSTARS(2) | JSTARS(2) |
| 2 – E3(1) | 2 – E3(1) | 2 – E3(1) | 2 – E3(1) | 2 – E3(1) |
| E3(2) | E3(2) | E3(2) | E3(2) | E3(2) |
| 1 – E3D(1) | 1 – E3D(1) | 1 – E3D(1) | 1 – E3D(1) | 1 – E3D(1) |
| 2 – ABCCC(1) | 2 – ABCCC(1) | 2 – ABCCC(1) | 2 – ABCCC(1) | 2 – ABCCC(1) |
| ABCCC(2) | ABCCC(2) | ABCCC(2) | ABCCC(2) | ABCCC(2) |
| 1 – E2C(1) | 1 – E2C(1) | 1 – E2C(1) | 1 – E2C(1) | 1 – E2C(1) |
| 3 – SHIP(1) | 3 – SHIP(1) | 3 – SHIP(1) | 3 – SHIP(1) | 3 – SHIP(1) |
| SHIP(2) | SHIP(2) | SHIP(2) | SHIP(2) | SHIP(2) |
| SHIP(3) | SHIP(3) | SHIP(3) | SHIP(3) | SHIP(3) |
| 1 – DBCC_ADSI(1) | 1 – DBCC_ADSI(1) | 1 – DBCC_ADSI(1) | 1 – DBCC_ADSI(1) | 1 – DBCC_ADSI(1) |
| 2 – SJS(1) | 2 – SJS(1) | 2 – SJS(1) | 2 – SJS(1) | 2 – SJS(1) |
| SJS(2) | SJS(2) | SJS(2) | SJS(2) | SJS(2) |
| 1 - AIC(1) | 1 - AIC(1) | 1 - AIC(1) | 1 - AIC(1) | 1 - AIC(1) |
| 1 – JRE_AF(1) | 1 – JRE_AF(1) | 1 – JRE_AF(1) | 1 – JRE_AF(1) | 1 – JRE_AF(1) |
| 1 – CRC(1) | 1 – CRC(1) | 1 – CRC(1) | 1 – JTAOM(1) | 1 – ADCP(1) |
| 1 – UK_JCABIN(1) | 1 – UK_JCABIN(1) | 1 – UK_JCABIN(1) | 1 – UK_JCABIN(1) | 1 – UK_JCABIN(1) |

1.1 Purpose

The purpose of this documentation is to describe the USMC Networks 10, 11, 12 and 13 as variants of Network AFBX0004B. It was created to allow initialization and communications of tactical data between all participating units. This documentation and appropriate loading data is being delivered to the appropriate Marine Corps units and Joint Services. Each of the other services participating in this network should contact their appropriate Network Design Facility to acquire their loading media. The functional descriptions of each network are detailed in Sections 10, 11, 12 and 13 respectively.

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Section 2

Network AFBXMA04B

USMC Network 10 – JTAOM(1)

AFBXMA04B/USMC Network 10
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| 2.0 Executive Summary – AFBXMA04B/USMC Network 10 | | | | | | | | | |
|--|---|---|--|---|---|--|--|--|--|
| Network: | AFBXMA04B USMC Networks 10, 11, 12 and 13 | Created for: | USMC Network variants created for ADCP and JTAOM participation in AF Network AFBXMA04B | | | | | | |
| Use Limitations: | | IPF OVERRIDE = 100/50 | | | | | | | |
| Participants: | USMC Platforms | USN Platforms | USA Platforms | USAF Platforms | Other Platforms | | | | |
| USMC Network 10 | 1 - JTAOM | 3 - SHIP 1 - E2C 4 - F14D 4 - FA18 | NONE | 1 - F15E 1 - F15 1 - F15F 1 - F15J 1 - B1 1 - B2 1 - F-117 1 - B52 2 - RJ | 1 - JSTARS 2 - E3 1 - E3D 2 - ABCCC 2 - SJS 1 - AIC 1 - JRE_AF 1 - CRC | 4 - F3 1 - TALON_GW 1 - DBCC_ADSI 1 - UK_JCABIN | | | |
| Operational Summary: | | 1. Highest Platform TSDF = 46.05 | | | | | | | |
| Network Requested by: | MACS-2 ATTN: 1stLt Smith | | | | | | | | |
| Send comments and Recommendations to: | USMC Network Design Facility Attn: AD-09 (MCNDF) Box 555171 Camp Pendleton, CA 92055-5171 E-mail: mcndf@mctssa.usmc.mil Website: http://www.mctssa.usmc.mil Telephone: DSN 365-2796/2133 COMM (760) 725-2796/2133 | | | | | | | | |

AFBXMA04B/USMC Network 10
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2.1 USMC Network 10 Functional Description – JTAOM(1)

USMC Network 10 was developed as a variant of Air Force Network AFBXMA04B by the Marine Corps Network Design Facility to support joint ground and air training operations for USMC platforms. Network 10 variant allows JTAOM(1) to use JSTARS(2) time slots as a participant in the network. The network participants are: F15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1), F14D(1)/4, FA18(1)/4, F3(1)/4, B1(1), B2(1), F117(1), B52(1), RJ(1)/2, TALON_GW(1), JSTARS(1), JTAOM(1), E3(1)/2 E3D(1), ABCCC(1)/2, E2C(1), SHIP(1)/3, DBCC_ADSI(1), SJS(1), SJS(2), AIC(1), JRE_AF(1), CRC(1), UK_JCABIN(1).

NOTES:

1. Network **IPF Override** is set to **1**, **TSDF** is set to **100/50**, **Communications Mode** is set to **Mode 1**, **TDMA Range** is **300 nmi**, **TSEC** is set to **1** and **MSEC** is set to **0**.
2. **JICO oversees all responsibility in managing network TSDF, NTR, and Relay assignments.**
3. **JTAOM(1) cannot be in the network if JSTARS(2) is a participant.**

2.2 Operational Summary

1. 100/50

All participants do not have line of sight with every other participant.

2.3 Use Limitations

1. 100/50 IPF

2.4 Participants

| USMC Platforms | USN Platforms | USA Platforms | USAF Platforms | Other |
|----------------|---------------|---------------|----------------|----------|
| 1 JTAOM | 3 SHIP | NONE | 1 F15E | 1 F15J |
| | 1 E2C | | 1 F15 | 1 B1 |
| | 4 – F14D | | 1 F15F | 1 B2 |
| | 4 – FA18 | | 1 F-117 | 1 B52 |
| | | | 2 RJ | 1 JSTARS |
| | | | 2 E3 | 1 E3D |
| | | | 2 ABCCC | 2 SJS |
| | | | 1 AIC | 1 JRE_AF |
| | | | 1 CRC | |

AFBXMA04B/USMC Network 10
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NETWORK DESCRIPTION

2.5 Network Participation Groups

NPG #3 (RTT-B)

| | |
|----------------|----------------------------|
| Participants: | All units transmit/receive |
| Access: | Contention access 4 |
| Capacity: | 8 total contention |
| Assigned Net: | 0 |
| Relay: | None |
| Packing Limit: | RTT |

NPG #5 (PPLI-A)

| | |
|----------------|--|
| Participants: | F14D(1)/4 and FA18(1)/4 transmit/receive All other NonC2 airborne platforms receive only. |
| Access: | Dedicated |
| Capacity: | 32 total slots |
| Assigned Net: | 1 |
| Relay: | No |
| Packing Limit: | P2DP |

NPG #6 (PPLI-B)

| | |
|----------------|---|
| Participants: | All units transmit/receive |
| Access: | Dedicated and Contention 8 Access |
| Capacity: | 152 total slots |
| Assigned Net: | Net 1 for F15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1), F3(1)/4, B1(1), B2(1), F-117(1), B52(1). Net 0 for all others. |
| Relay: | RJ(1)/2, JSTARS(1), JTAOM(1), E3(1)/2, ABCCC(1)/2, E2C, Ship(1)/3. |
| Packing Limit: | P2SP, P2DP and STD |

NPG #7 (Surveillance)

| | |
|---------------|---|
| Participants: | RJ(1)/2: transmit/receive. Own surveillance is not relayed. TALON_GW: transmit/receive. Own surveillance is not relayed. JSTARS(1): transmit/receive. Own surveillance is not relayed. JTAOM(1): transmit/receive. Own surveillance is not relayed. E3(1)/2 and E3D: transmit/receive. Own surveillance is not relayed. E2C(1) and Ships(1)/3: transmit/receive (option pool) DBCC_ADSI(1): transmit/receive SJS(1)/2: transmit/receive AIC(1): transmit/receive JRE_AF(1): transmit/receive |
|---------------|---|

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CRC(1): transmit/receive
15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1),
F14D(1)/4, FA18(1)/4, F3(1)/4, B1(1), B2(1), F-117(1),
B52(1), AIC(1), UK_JCABIN(1) receive only
All others: transmit/receive with relay.

Access: Dedicated and Dedicated slot with reuse.
Capacity: 416 total slots
Assigned Net: 0
Relay: RJ(1)/2, JSTARS(1), JTAOM(1), E3(1)/2, ABCCC(1)/2,
E2C(1), Ships(1)/3
Packing Limit: P2DP and P4

NPG #8 (Weapons Coordination and Mission Management)

Participants: JSTARS(1): transmit/receive not relayed.
JTAOM(1): transmit/receive not relayed.
E3(1)/2: transmit/receive not relayed.
E3D(1): transmit/receive not relayed.
E2C(1) and Ship(1)/3: transmit/receive with relay.
DBCC_ADSI(1), JRE_AF(1), CRC(1): transmit/receive
with relay.
All others: receive only

Access: Dedicated
Capacity: 48 total slots
Assigned Net: 0
Relay: None
Packing Limit: P2DP and P4

NPG #9 (Fighter Air Control Uplink)

Participants: Talon_GW(1): transmit/receive
JSTARS(1): transmit/receive
JTAOM(1): transmit/receive
E3(1)/2: transmit/receive
E3D(1): transmit/receive
CRC(1): transmit/receive
E2C(1), Ship(1)/3: transmit/receive
DBCC_ADSI(1): transmit/receive
JRE_AF: transmit/receive
CRC(1): transmit/receive
All others except ABCCC(1)/2 and RJ(1)/2: receive only

Access: Dedicated with slot reuse
Capacity: 32 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: P2SP

AFBXMA04B/USMC Network 10
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NETWORK DESCRIPTION

NPG #9 (Fighter Air Control Backlink)

Participants: F15/F15E/F/J: transmit/receive
F3(1)/4: transmit/receive
F14D(1)/4 and FA18(1)/4: transmit/receive (option pool)
Talon_GW(1), JSTARS(1), JTAOM(1), E3(1)/2, E3D,
E2C(1), Ships(1)/3, AIC(1), JRE_AF(1): receive only.
Access: Dedicate w/slot reuse, Dedicated and Contention Access 9
Capacity: 224 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: STD, P2DP

NPG #10 (Electronic Warfare)

Participants: RJ(1)/2: transmit/receive without relay
E3(1)2 and E3D: transmit/receive without relay
E2C(1) and Ships(1)/3: transmit/receive with relay.
Access: Dedicated and Dedicated w/slot reuse
Capacity: 56 total slots
Assigned Net: 10
Relay: RJ(1)/2, JSTARS(1), JTAOM(1), E3(1)/2, ABCCC(1)/2,
E2C(1) and Ships(1)/3
Packing Limit: P4, P2DP

NPG #12 (Voice A – 2.4 Kbps)

Participants: F15, F15J, F14D(1)/4, FA18(1)/4, F3(1)/4: transmit/receive
RJ(1)/2: transmit/receive
E3(1)/2 and E3D: transmit/receive
E2C(1) and Ships(1)/3: transmit/receive
JRE_AF(1) and CRC(1): transmit/receive
Access: Contention Access 14
Capacity: 64 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: P2SP

NPG #14 (Indirect PPLI - IPPLI)

Participants: Ships(1)/3: transmit/receive
Access: Dedicated w/slot reuse
Capacity: 8 total slots
Assigned Net: 0
Relay: RJ(1)/2, JSTARS(1), JTAOM(1), E3(1)/2, ABCCC(1)/2,
E2C(1) and Ships(1)/3.
Packing Limit: P2DP

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NPG #17

| | |
|----------------|--|
| Participants: | Talon_GW(1): transmit/receive JSTARS(1): transmit/receive JTAOM(1): transmit/receive DBCC_ADSI(1): transmit/receive SJS(1)/2: transmit/receive F15E(1.1.1), B1(1), B2(1), F117(1), RJ(1)/2, E3(1)/2 and ABCCC(1)/2: receive only |
| Access: | Dedicated w/slot reuse |
| Capacity: | 32 total slots |
| Assigned Net: | 0 |
| Relay: | RJ(1)/2, JSTARS(1), JTAOM(1), E3(1)/2, ABCCC(1)/2 |
| Packing Limit: | P4 |

NPG #19 (Fighter/Fighter Advisory)

| | |
|----------------|--|
| Participants: | E2C(1): transmit/receive F14D(1)/4 and FA18(1)/4 receive only |
| Access: | Dedicated |
| Capacity: | 2 total slots |
| Assigned Net: | 1 |
| Relay: | None |
| Packing Limit: | P2DP |

NPG #19 (Fighter/Fighter Targeting)

| | |
|----------------|--|
| Participants: | F15/F15E/F/J: transmit/receive F14D(1)/4 and FA18(1)/4: transmit/receive (option pool) E2C(1) and Ship(1)/3 receive only |
| Access: | Contention Access 14 and dedicated |
| Capacity: | 224 total slots |
| Assigned Net: | 1 and 2 |
| Relay: | None |
| Packing Limit: | STD |

NPG #20 (NC2/NC2 Fighter/Fighter Targeting)

| | |
|----------------|----------------------------|
| Participants: | F15E/F15: transmit/receive |
| Access: | Contention Access 14 |
| Capacity: | 64 total slots |
| Assigned Net: | 1 |
| Relay: | None |
| Packing Limit: | P2SP |

NPG #29 (Residual Messages)

| | |
|---------------|--|
| Participants: | JSTARS(1): transmit/receive JTAOM(1): transmit/receive E3(1)/2: transmit/receive |
|---------------|--|

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ABCCC(1): transmit/receive
SJS(1)/2: transmit/receive
Access: Dedicated
Capacity: 32 total slots
Assigned Net: 1
Relay: None.
Packing Limit: P2SP

NPG #30 (P-Messages)

Participants: RJ(1)/2, Talon_GW(1), JSTARS(1), JTAOM(1), E3(1)/2,
E3D, ABCCC(1)/2, E2C(1): transmit/receive
Access: STD
Capacity: 12 total slots
Assigned Net: 0
Relay: None
Packing Limit: STD

AFBXMA04B/USMC Network 10
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NETWORK DESCRIPTION

APPENDIX A – AFBXMA04B/USMC Network 10

CONNECTIVITY MATRIX
PULSE DENSITY REPORT
ALLOCATION TABLE
COMSEC CROSS REFERENCE TABLE
TIME LINE DISPLAY
NDL FILENAME TABLE

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMA04B/USMC Network 10

| Slot Group | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------------|----------------------------|-------------|--------------|------|------|------|------|----|-----|-----|----|----|-----|-----|-----|----|-----|-----|------|----|----|
| NPG Number | | 3 | 30 | 5 | 6 | 6 | TY | 6 | 6 | TY | 7 | 7 | 7 | TY | 7 | TY | 7 | 7 | 7 | TY | |
| Net Number | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| TSEC Variable | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| MSEC Variable | | | | | | | | | | | | | | | | | | | | | |
| Access Mode | | 4 | D | D | D | D | D | | 8 | D | | D | D | D | | D | D | D | D | | |
| Packing Limit | | | STD | P2DP | P2DP | P2SP | P2SP | | STD | STD | | P4 | P4 | P4 | | P4 | P4 | P4 | P2DP | | |
| Per Unit Slots/Frame | | | 1 | 4 | 2 | 2 | 1 | | | | | 8 | 4 | 8 | | 4 | | 40 | 4 | | |
| Total Slots/Frame | | 8 | 12 | 32 | 16 | 28 | 12 | 12 | 96 | 48 | 48 | 16 | 8 | 16 | 16 | 8 | 8 | 160 | 8 | 80 | |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | | | | | | | | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 2.F15(3.1.1) | Y | 0 | T | | R | R | R | | T | | | R | R | | | | R | R | R | | |
| 3.F15F(3.1.1) | Y | 0 | T | | R | R | R | | T | | | R | | | | | R | R | R | | |
| 4.F15J(4.1.1) | Y | 0 | T | | R | R | R | | T | | | R | | | | | R | R | R | | |
| 5.F14D(1.1)/4 | Y | 0 | T | | T/R | T/R | R | R | | R | | R | R | | | | R | R | R | | |
| 6.FA18(1.1)/4 | Y | 0 | T | | T/R | T/R | R | R | | R | | R | R | R | | R | R | R | R | | |
| 7.F3(1.1)/4 | Y | 0 | T | | R | R | R | | T | | | R | R | | | | R | R | R | | |
| 8.B1(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | R | | |
| 9.B2(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | R | | |
| 10.F-117(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | R | | |
| 11.B52(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | R | | |
| 12.RJ(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | T/R | T/R | R | Y | R | R | R | Y | |
| 13.RJ(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | T/R | T/R | R | Y | R | R | R | Y | |
| 14.Talon_GW(1) | Y | 0 | T | T/R | | R | T/R | R | | R | R | R | R | R | | R | T/R | R | R | | |
| 15.JSTARS(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | T/R | Y | T/R | Y | R | R | |
| 16.JTAOM(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | T/R | Y | T/R | Y | R | R | |
| 17.E3(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | Y | R | Y | T/R | R | R | |
| 18.E3(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | Y | R | Y | T/R | R | R | |
| 19.E3D(1) | Y | 0 | T | T/R | | R | T/R | R | | R | R | R | R | R | | | T/R | R | R | R | |
| 20.ABCCC(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 21.ABCCC(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 22.E2C(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | R | R | R | | | | R | R | O | Y |
| 23.SHIP(1) | Y | 0 | T | | R | R | T/R | Y | | R | R | R | R | | | | R | R | O | Y | |
| 24.SHIP(2) | Y | 0 | T | | R | R | T/R | Y | | R | R | R | R | | | | R | R | O | Y | |
| 25.SHIP(3) | Y | 0 | T | | R | R | T/R | Y | | R | R | R | R | | | | R | R | O | Y | |
| 26.DBCC_ADSI(1) | Y | 0 | T | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | R | |
| 27.SJS(1) | Y | 0 | T | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | R | |
| 28.SJS(2) | Y | 0 | T | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | R | |
| 29.AIC(1) | Y | 0 | T | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | R | |
| 30.JRE_AF(1) | Y | 0 | T | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | R | |
| 31.CRC(1) | Y | 0 | T | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | R | |
| 32.UK_JCabin(1) | Y | 0 | T | | R | R | T/R | | | R | R | R | R | R | R | | R | R | R | R | |

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMA04B/USMC Network 10 Cont'd

| Slot Group | | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | | | |
|----------------------|----------------------------|-------------|--------------|----|-----|----|-----|----|------|-----|------|-----|------|------|-----|------|-----|------|-----|------|------|----|---|---|---|
| NPG Number | | | 7 | TY | 7 | TY | 7 | TY | 8 | 8 | TY | 8 | TY | 9 | 9 | 9 | 9 | 10 | 10 | TY | 12 | 14 | | | |
| Net Number | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 127 | 127 | 127 | 10 | 10 | 10 | 127 | 0 | | | |
| TSEC Variable | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| MSEC Variable | | | | | | | | | | | | | | | | | | | | | | | | | |
| Access Mode | | | R | | D | | D | | D | D | | D | | R | D | 9 | D | D | D | | D | R | | | |
| Packing Limit | | | P4 | | P4 | | P4 | | P2DP | | P2DP | | P2SP | P2SP | STD | P2DP | P4 | P2DP | | P2SP | P2DP | | | | |
| Per Unit Slots/Frame | | | | | 4 | | 24 | | 4 | 4 | | 4 | | | | | | | 8 | 4 | | | | | |
| Total Slots/Frame | | | 64 | 64 | 8 | 8 | 48 | 48 | 20 | 12 | 12 | 16 | 16 | 16 | 16 | 128 | 64 | 40 | 16 | 16 | 64 | 8 | | | |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | | | | | | | | | | | | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | | | | R | | | |
| 2.F15(3.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | | | | T | R | | |
| 3.F15F(3.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | | | | | R | | |
| 4.F15J(4.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | T | R | | | | | | T | R | |
| 5.F14D(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | R | O | | | | | | T | R | |
| 6.FA18(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | R | O | | | | | | T | R | |
| 7.F3(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | R | T | R | | | | | T | R | |
| 8.B1(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | R | | | | | | | | R | |
| 9.B2(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | R | | | | | | | | R | |
| 10.F-117(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | R | | | | | | | | R | |
| 11.B52(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | R | | | | | | | | R | |
| 12.RJ(1) | Y | 0 | R | Y | R | Y | R | Y | R | Y | R | Y | R | Y | | | | | T/R | R | Y | T | R | | |
| 13.RJ(2) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | | T/R | R | Y | T | R | | |
| 14.Talon_GW(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | R | | | | | | | R | |
| 15.JSTARS(1) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | | R | Y | | | R | | |
| 16.JTAOM(1) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | | R | Y | | | R | | |
| 17.E3(1) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | T/R | R | Y | T | R | | | |
| 18.E3(2) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | T/R | R | Y | T | R | | | |
| 19.E3D(1) | Y | 0 | R | R | R | R | R | R | T/R | R | R | R | R | R | T | | R | R | T/R | R | R | T | R | | |
| 20.ABCCC(1) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | | R | Y | | | R | | |
| 21.ABCCC(2) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | | R | Y | | | R | | |
| 22.E2C(1) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | R | | | |
| 23.SHIP(1) | Y | 0 | R | R | R | R | R | R | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | T | | | |
| 24.SHIP(2) | Y | 0 | R | R | R | R | R | R | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | T | | | |
| 25.SHIP(3) | Y | 0 | R | R | R | R | R | R | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | T | | | |
| 26.DBCC ADSI(1) | Y | 0 | T | | R | R | R | R | R | R | R | T/R | R | R | T | | R | R | R | R | R | R | R | | |
| 27.SJS(1) | Y | 0 | R | R | T/R | R | R | R | R | R | R | R | R | R | R | | | | | | | | | R | |
| 28.SJS(2) | Y | 0 | R | R | T/R | R | R | R | R | R | R | R | R | R | R | | | | | | | | | R | |
| 29.AIC(1) | Y | 0 | T | R | R | R | R | R | R | R | R | | | | R | | | | | | | | | R | |
| 30.JRE_AF(1) | Y | 0 | R | R | R | R | T/R | R | R | T/R | R | R | R | T | | R | R | | | | | | | T | R |
| 31.CRC(1) | Y | 0 | R | R | R | R | T/R | R | R | T/R | R | R | R | T | | R | R | | | | | | | T | R |
| 32.UK_JCabin(1) | Y | 0 | R | R | R | R | R | R | R | R | R | R | R | R | R | | | | | | | | | R | |

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMA04B/USMC Network 10 Cont'd

| Slot Group | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
|----------------------|----------------------------------|----------------|--------------|------|------|------|-----|----|----|
| NPG Number | TY | 19 | 19 | 19 | 19 | 20 | 29 | 17 | TY |
| Net Number | 0 | 1 | 1 | 2 | 1 | 1 | 10 | 5 | 5 |
| TSEC Variable | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| MSEC Variable | | | | | | | | | |
| Access Mode | | D | 14 | D | D | 14 | D | R | |
| Packing Limit | | P2DP | P2SP | P2DP | P2DP | P2SP | P4 | P4 | |
| Per Unit Slots/Frame | | | | | | | 4 | | |
| Total Slots/Frame | 8 | 2 | 160 | 64 | 96 | 64 | 36 | 32 | 32 |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | | | T | | T | | R |
| 2.F15(3.1.1) | Y | 0 | | | T | | T | | |
| 3.F15F(3.1.1) | Y | 0 | | | T | | T | | |
| 4.F15J(4.1.1) | Y | 0 | | | T | | T | | |
| 5.F14D(1.1)/4 | Y | 0 | | R | | O | R | | |
| 6.FA18(1.1)/4 | Y | 0 | | R | | O | R | | |
| 7.F3(1.1)/4 | Y | 0 | | | R | | | | |
| 8.B1(1) | Y | 0 | | | | | | R | R |
| 9.B2(1) | Y | 0 | | | | | | R | R |
| 10.F-117(1) | Y | 0 | | | | | | R | R |
| 11.B52(1) | Y | 0 | | | | | | R | R |
| 12.RJ(1) | Y | 0 | Y | | | | | R | Y |
| 13.RJ(2) | Y | 0 | Y | | | | | R | Y |
| 14.Talon_GW(1) | Y | 0 | R | | | | R | T | |
| 15.JSTARS(1) | Y | 0 | Y | | | | T/R | T | Y |
| 16.JTAOM(1) | Y | 0 | Y | | | | T/R | T | Y |
| 17.E3(1) | Y | 0 | Y | | | | T/R | R | Y |
| 18.E3(2) | Y | 0 | Y | | | | T/R | R | Y |
| 19.E3D(1) | Y | 0 | R | | | | | | |
| 20.ABCCC(1) | Y | 0 | Y | | | | T/R | R | Y |
| 21.ABCCC(2) | Y | 0 | Y | | | | T/R | R | Y |
| 22.E2C(1) | Y | 0 | Y | T | | R | | | |
| 23.SHIP(1) | Y | 0 | Y | | | R | | | |
| 24.SHIP(2) | Y | 0 | Y | | | R | | | |
| 25.SHIP(3) | Y | 0 | Y | | | R | | | |
| 26.DBCC_ADSI(1) | Y | 0 | R | | | | | T | |
| 27.SJS(1) | Y | 0 | R | | | | T/R | T | |
| 28.SJS(2) | Y | 0 | R | | | | T/R | T | |
| 29.AIC(1) | Y | 0 | R | | | | | | |
| 30.JRE_AF(1) | Y | 0 | R | | | | | | |
| 31.CRC(1) | Y | 0 | R | | | | | | |
| 32.UK_JCabin(1) | Y | 0 | R | | | | | | |

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Pulse Density Report – AFBXMA04B/USMC Network 10

| Check for Active Platform | Participant | Data Without Relay | Data With Relay |
|---------------------------|--------------|--------------------|-----------------|
| | F15E(1.1.1) | 30.35% | 32.43% |
| | F15(3.1) | 30.35% | 32.43% |
| | F15F(3.1.1) | 30.35% | 32.43% |
| | F15J(4.1.1) | 30.35% | 32.43% |
| | F14D(1.1) | 3.64% | 5.73% |
| | F14D(1.2) | 3.64% | 5.73% |
| | F14D(1.3) | 3.64% | 5.73% |
| | F14D(1.4) | 2.60% | 2.60% |
| | FA18(1.1) | 2.60% | 2.60% |
| | FA18(1.2) | 2.60% | 4.69% |
| | FA18(1.3) | 2.60% | 4.69% |
| | FA18(1.4) | 2.60% | 4.69% |
| | F3(1.1) | 14.72% | 14.72% |
| | F3(1.2) | 14.72% | 14.72% |
| | F3(1.3) | 14.72% | 14.72% |
| | F3(1.4) | 14.72% | 14.72% |
| | B1(1) | 6.39% | 6.39% |
| | B2(1) | 6.39% | 6.39% |
| | F117(1) | 6.39% | 6.39% |
| | B52(1) | 6.39% | 6.39% |
| | RJ(1) | 2.57% | 40.99% |
| | RJ(2) | 2.57% | 40.99% |
| | Talon_GW(1) | 9.44% | 13.35% |
| | JSTAR(1) | 7.20% | 45.60% |
| | JTAOM(1) | 7.20% | 45.60% |
| | E3(1) | 7.65% | 46.05% |
| | E3(2) | 7.65% | 46.05% |
| | E3D(1) | 7.20% | 14.22% |
| | ABCCC(1) | 1.23% | 36.51% |
| | ABCCC(2) | 1.23% | 36.51% |
| | E2C(1) | 3.39% | 17.62% |
| | SHIP(1) | 3.93% | 18.16% |
| | SHIP(2) | 3.93% | 18.16% |
| | SHIP(3) | 3.93% | 18.16% |
| | DBCC_ADSI(1) | 11.41% | 13.20% |
| | SJS(1) | 4.68% | 4.68% |
| | SJS(2) | 4.68% | 4.68% |
| | AIC(1) | 7.37% | 7.37% |
| | JRE_AF(1) | 4.38% | 4.38% |
| | CRC(1) | 4.38% | 4.38% |
| | UK_Jcabin(1) | 0.20% | 0.20% |

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Pulse Density Report – AFBXMA04B/USMC Network 10 Cont'd

| If the Frequency Assignment authorizes TADIL-J Voice, add the below percentage to the above platform transmitting TADIL-J Voice. | | | |
|--|---------|---------------|------------|
| | | Voice % | Voice % |
| | | Without Relay | With relay |
| 2.4 Kbps | Voice A | 0.0% | 4.17% |
| | Voice B | N/A | N/A |

Example of TSDF calculation:

E3(1): (Data with Relay = 46.05%) + (Voice 'A' with Relay = 4.17%)
Total Data/Voice with Relay = 50.22%

In the above example you would enter the result into the Deconfliction Server. Other platform results may vary if Voice or Relay is used.

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Allocation Table – AFBXMA04B/USMC Network 10

| SB / Agg | Net Req. | Net | Set | Idx | RRN |
|----------|----------|-----|-----|-----|-----|
| 1.1 | 0 | 0 | B | 50 | 9 |
| 2.1 | | 0 | C | 22 | 9 |
| 2.2 | | 0 | C | 54 | 8 |
| 3.1 | | 1 | A | 6 | 11 |
| 4.1 | 0 | 0 | C | 14 | 10 |
| 5.1 | 0 | 0 | C | 27 | 10 |
| 5.2 | 0 | 0 | C | 62 | 9 |
| 5.3 | 0 | 0 | C | 90 | 8 |
| 6.1 | 0 | 0 | A | 19 | 9 |
| 6.2 | 0 | 0 | A | 99 | 8 |
| 7.1 | | 0 | A | 27 | 9 |
| 7.2 | | 0 | A | 107 | 8 |
| 8.1 | | 1 | B | 1 | 12 |
| 8.2 | | 1 | B | 5 | 11 |
| 9.1 | | 1 | B | 1 | 10 |
| 9.2 | | 1 | B | 9 | 10 |
| 9.3 | | 1 | B | 21 | 10 |
| 10.1 | | 0 | B | 5 | 10 |
| 10.2 | | 0 | B | 17 | 10 |
| 10.3 | | 0 | B | 25 | 10 |
| 11.1 | 0 | 0 | C | 6 | 10 |
| 12.1 | 0 | 0 | C | 11 | 9 |
| 13.1 | 0 | 0 | B | 10 | 10 |
| 14.1 | | 0 | B | 13 | 10 |
| 15.1 | 0 | 0 | B | 26 | 9 |
| 16.1 | | 0 | B | 29 | 9 |
| 17.1 | 0 | 0 | C | 1 | 11 |
| 17.2 | 0 | 0 | C | 9 | 11 |
| 17.3 | 0 | 0 | C | 5 | 11 |
| 17.4 | 0 | 0 | C | 13 | 11 |
| 17.5 | 0 | 0 | C | 3 | 9 |
| 17.6 | 0 | 0 | C | 35 | 9 |
| 17.7 | 0 | 0 | C | 19 | 9 |
| 17.8 | 0 | 0 | C | 51 | 9 |
| 18.1 | 0 | 0 | B | 55 | 9 |
| 19.1 | 0 | 0 | A | 0 | 12 |
| 19.2 | 0 | 0 | A | 4 | 10 |
| 20.1 | | 0 | A | 2 | 12 |
| 20.2 | | 0 | A | 6 | 10 |
| 21.1 | 0 | 0 | A | 1 | 12 |
| 22.1 | | 0 | A | 5 | 12 |
| 23.1 | 0 | 0 | B | 18 | 9 |
| 24.1 | | 0 | B | 23 | 9 |
| 25.1 | 0 | 0 | A | 12 | 10 |
| 25.2 | 0 | 0 | A | 28 | 10 |
| 25.3 | 0 | 0 | A | 20 | 9 |
| 25.4 | 0 | 0 | A | 52 | 9 |

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Allocation Table – AFBXMA04B/USMC Network 10 Cont'd

| SB / Agg | Net Req. | Net | Set | Idx | RRN |
|----------|----------|-----|-----|-----|-----|
| 26.1 | | 0 | A | 14 | 10 |
| 26.2 | | 0 | A | 30 | 10 |
| 26.3 | | 0 | A | 22 | 9 |
| 26.4 | | 0 | A | 54 | 9 |
| 27.1 | 0 | 0 | C | 10 | 10 |
| 27.2 | 0 | 0 | C | 26 | 8 |
| 28.1 | 0 | 0 | A | 3 | 9 |
| 28.2 | 0 | 0 | A | 35 | 8 |
| 29.1 | 0 | 0 | A | 11 | 9 |
| 29.2 | 0 | 0 | A | 43 | 8 |
| 30.1 | 0 | 0 | B | 2 | 10 |
| 31.1 | 0 | 0 | B | 7 | 10 |
| 32.1 | 127 | 127 | B | 15 | 10 |
| 33.1 | 127 | 127 | B | 31 | 10 |
| 34.1 | 127 | 127 | B | 0 | 13 |
| 35.1 | 127 | 127 | B | 6 | 12 |
| 36.1 | | 10 | B | 19 | 10 |
| 36.2 | | 10 | B | 27 | 10 |
| 36.3 | | 0 | C | 58 | 9 |
| 37.1 | | 10 | B | 3 | 10 |
| 38.1 | | 10 | B | 11 | 10 |
| 39.1 | 127 | 127 | C | 7 | 12 |
| 40.1 | 0 | 0 | A | 51 | 9 |
| 41.1 | | 0 | A | 59 | 9 |
| 42.1 | | 1 | A | 254 | 7 |
| 43.1 | | 1 | C | 0 | 12 |
| 43.2 | | 1 | C | 4 | 12 |
| 43.3 | | 1 | C | 2 | 11 |
| 44.1 | | 2 | C | 0 | 12 |
| 45.1 | | 1 | C | 4 | 12 |
| 45.2 | | 1 | C | 2 | 11 |
| 46.1 | | 1 | B | 3 | 12 |
| 47.1 | | 10 | C | 4 | 11 |
| 47.2 | | 10 | C | 12 | 8 |
| 48.1 | | 5 | A | 7 | 11 |
| 49.1 | | 5 | A | 15 | 11 |

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

COMSEC Cross Reference Table – AFBXMA04B/USMC Network 10

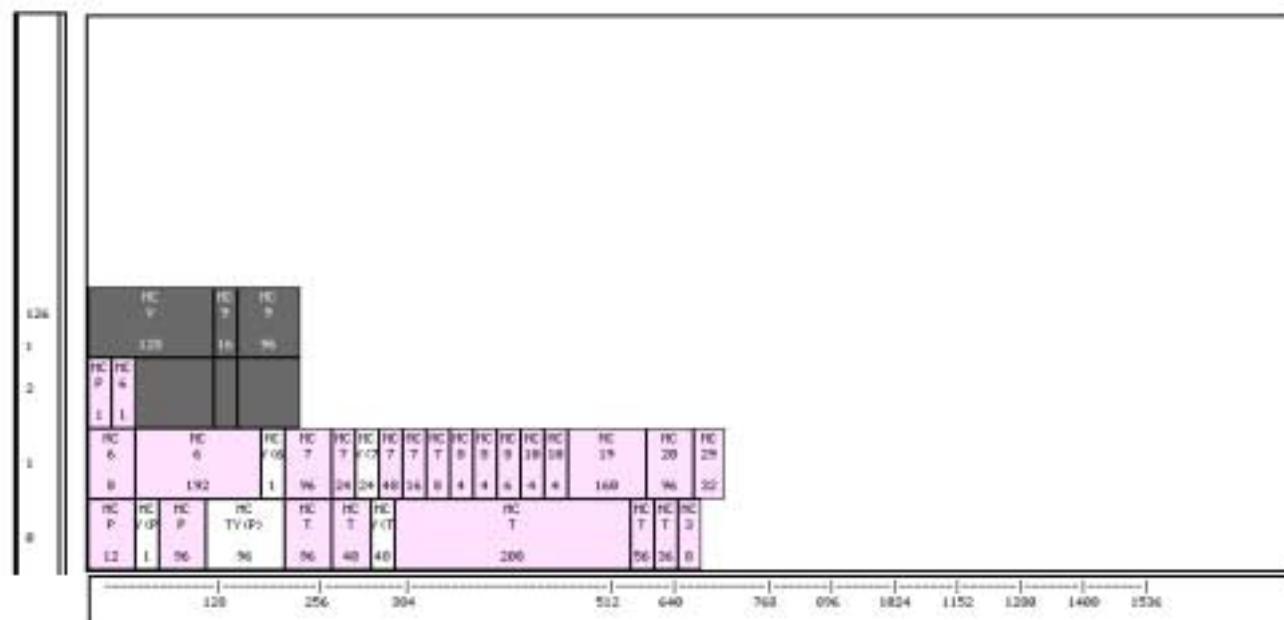
| Default MSEC = 0 | | Default TSEC = 1 | | | |
|------------------|-----|------------------|-----|-----|----------|
| SDU Locations | | | | | |
| Participant | 0/1 | 2/3 | 4/5 | 6/7 | Overflow |
| F15E(1.1.1) | 1 | 2 | | | |
| F15(3.1.1) | 1 | 2 | | | |
| F15F(3.1.1) | 1 | 2 | | | |
| F15J(4.1.1) | 1 | 2 | | | |
| F14D(1.1)/4 | 1 | | | | |
| FA18(1.1)/4 | 1 | | | | |
| F3(1.1)/4 | 1 | | | | |
| B1(1) | 1 | | | | |
| B2(1) | 1 | | | | |
| F-117(1) | 1 | | | | |
| B52(1) | 1 | | | | |
| RJ(1) | 1 | | | | |
| RJ(2) | 1 | | | | |
| Talon_GW(1) | 1 | | | | |
| JSTARS(1) | 1 | | | | |
| JTAOM(1) | 1 | | | | |
| E3(1) | 1 | | | | |
| E3(2) | 1 | | | | |
| E3D(1) | 1 | | | | |
| ABCCC(1) | 1 | | | | |
| ABCCC(2) | 1 | | | | |
| E2C(1) | 1 | | | | |
| SHIP(1) | 1 | | | | |
| SHIP(2) | 1 | | | | |
| SHIP(3) | 1 | | | | |
| DBCC_ADSI(1) | 1 | | | | |
| SJS(1) | 1 | | | | |
| SJS(2) | 1 | | | | |
| AIC(1) | 1 | | | | |
| JRE_AF(1) | 1 | | | | |
| CRC(1) | 1 | | | | |
| UK_JCabin(1) | 1 | | | | |

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Time Line – AFBXMA04B/USMC Network 10

Time Line Display Status: CREATED

Nets



Total Slots/Frame

Note: Not to scale

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NDL File Name Table

Platforms referenced in the below table correspond with specific NDL file names or Network file identification numbers for each respective participant platform.

| Network Platform Name By Service | | File Name/Network Used By Host System |
|---|----------|--|
| Marine Corps | | |
| JTAOM | JTAOM(1) | TAOM1_10.PF |
| | | |

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

APPENDIX B – AFBXMA04B/USMC Network 10

SHORT FORM REPORT FOR JTAOM (1)

AFBXMA04B/USMC Network 10
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Participant JTAOM (1)

| Participant | Block Id. No. | Slot Type | Msg Cat | Total Slots Req'd | Slot Blocks Req'd | Slot Group A=Agg | Slot Group Elemt. | Set | Index | RRN | Net | Relay Delay |
|-------------|---------------|-----------|---------|-------------------|-------------------|------------------|-------------------|-----|-------|-----|-----|-------------|
| JTAOM(1) | 1 | T | 3 | 8 | 8 | 1.1 | 0 | B | 50 | 9 | 0 | 0 |
| | 2 | T | 30 | 1 | 1 | 2.1 | 5 | C | 86 | 6 | 0 | 0 |
| | 3 | T | 6 | 2 | 2 | 5.1 | 5 | C | 59 | 7 | 0 | 0 |
| | 4 | T | 7 | 8 | 8 | 13.1 | 2 | B | 42 | 9 | 0 | 0 |
| | 5 | T | 7 | 4 | 4 | 15.1 | 2 | B | 90 | 8 | 0 | 0 |
| | 6 | T | 8 | 4 | 4 | 27.1 | 2 | C | 74 | 8 | 0 | 0 |
| | 7 | T | 9 | 16 | 16 | 32.1 | 0 | B | 15 | 10 | 127 | 0 |
| | 8 | T | 29 | 4 | 4 | 47.1 | 2 | C | 68 | 8 | 10 | 0 |
| | 9 | T | 17 | 32 | 32 | 48.1 | 0 | A | 7 | 11 | 5 | 0 |
| | 10 | R | 30 | 12 | 8 | 2.1 | 0 | C | 22 | 9 | 0 | 0 |
| | 11 | R | 30 | | 4 | 2.2 | 0 | C | 54 | 8 | 0 | 0 |
| | 12 | R | 6 | 16 | 16 | 4.1 | 0 | C | 14 | 10 | 0 | 0 |
| | 13 | R | 6 | 28 | 16 | 5.1 | 0 | C | 27 | 10 | 0 | 0 |
| | 14 | R | 6 | | 8 | 5.2 | 0 | C | 62 | 9 | 0 | 0 |
| | 15 | R | 6 | | 4 | 5.3 | 0 | C | 90 | 8 | 0 | 0 |
| | 16 | R | 7 | 16 | 16 | 11.1 | 0 | C | 6 | 10 | 0 | 0 |
| | 17 | R | 7 | 8 | 8 | 12.1 | 0 | C | 11 | 9 | 0 | 0 |
| | 18 | R | 7 | 160 | 32 | 17.1 | 0 | C | 1 | 11 | 0 | 0 |
| | 19 | R | 7 | | 32 | 17.2 | 0 | C | 9 | 11 | 0 | 0 |
| | 20 | R | 7 | | 32 | 17.3 | 0 | C | 5 | 11 | 0 | 0 |
| | 21 | R | 7 | | 32 | 17.4 | 0 | C | 13 | 11 | 0 | 0 |
| | 22 | R | 7 | | 8 | 17.5 | 0 | C | 3 | 9 | 0 | 0 |
| | 23 | R | 7 | | 8 | 17.6 | 0 | C | 35 | 9 | 0 | 0 |
| | 24 | R | 7 | | 8 | 17.7 | 0 | C | 19 | 9 | 0 | 0 |
| | 25 | R | 7 | | 8 | 17.8 | 0 | C | 51 | 9 | 0 | 0 |
| | 26 | R | 7 | 8 | 8 | 18.1 | 0 | B | 55 | 9 | 0 | 0 |
| | 27 | R | 8 | 20 | 16 | 27.1 | 0 | C | 10 | 10 | 0 | 0 |
| | 28 | R | 8 | | 4 | 27.2 | 0 | C | 26 | 8 | 0 | 0 |
| | 29 | R | 9 | 128 | 128 | 34.1 | 0 | B | 0 | 13 | 127 | 0 |
| | 30 | R | 9 | 64 | 64 | 35.1 | 0 | B | 6 | 12 | 127 | 0 |
| | 31 | R | 29 | 36 | 32 | 47.1 | 0 | C | 4 | 11 | 10 | 0 |
| | 32 | R | 29 | | 4 | 47.2 | 0 | C | 12 | 8 | 10 | 0 |
| | 33 | Y | 6 | 12 | 8 | 6.1 | 0 | A | 19 | 9 | 0 | 24 |
| | 34 | Y | 6 | | 4 | 6.2 | 0 | A | 99 | 8 | 0 | 24 |
| | 35 | Y | 6 | 48 | 16 | 9.1 | 0 | B | 1 | 10 | 0 | 12 |
| | 36 | Y | 6 | | 16 | 9.2 | 0 | B | 9 | 10 | 0 | 24 |
| | 37 | Y | 6 | | 16 | 9.3 | 0 | B | 21 | 10 | 0 | 12 |
| | 38 | Y | 7 | 16 | 16 | 13.1 | 0 | B | 10 | 10 | 0 | 9 |
| | 39 | Y | 7 | 8 | 8 | 15.1 | 0 | B | 26 | 9 | 0 | 9 |
| | 40 | Y | 7 | 80 | 64 | 19.1 | 0 | A | 0 | 12 | 0 | 6 |
| | 41 | Y | 7 | | 16 | 19.2 | 0 | A | 4 | 10 | 0 | 6 |
| | 42 | Y | 7 | 64 | 64 | 21.1 | 0 | A | 1 | 12 | 0 | 12 |
| | 43 | Y | 7 | 8 | 8 | 23.1 | 0 | B | 18 | 9 | 0 | 15 |
| | 44 | Y | 7 | 48 | 16 | 25.1 | 0 | A | 12 | 10 | 0 | 6 |
| | 45 | Y | 7 | | 16 | 25.2 | 0 | A | 28 | 10 | 0 | 6 |
| | 46 | Y | 7 | | 8 | 25.3 | 0 | A | 20 | 9 | 0 | 6 |
| | 47 | Y | 7 | | 8 | 25.4 | 0 | A | 52 | 9 | 0 | 6 |
| | 48 | Y | 8 | 12 | 8 | 28.1 | 0 | A | 3 | 9 | 0 | 24 |
| | 49 | Y | 8 | | 4 | 28.2 | 0 | A | 35 | 8 | 0 | 24 |
| | 50 | Y | 8 | 16 | 16 | 30.1 | 0 | B | 2 | 10 | 0 | 15 |
| | 51 | Y | 10 | 16 | 16 | 37.1 | 0 | B | 3 | 10 | 10 | 24 |
| | 52 | Y | 14 | 8 | 8 | 40.1 | 0 | A | 51 | 9 | 0 | 24 |
| | 53 | Y | 17 | 32 | 32 | 48.1 | 0 | A | 7 | 11 | 5 | 24 |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Section 3

Network AFBXMB04B

USMC Network 11 – ADCP(1)

AFBXMB04B/USMC Network 11
 MARINE CORPS NETWORK DESIGN FACILITY
 NETWORK DESCRIPTION

| 3.0 Executive Summary – AFBXMB04B/USMC Network 11 | | | | | | |
|--|---|---|---|---|---|--|
| Network: | AFBXMB04B USMC Networks 10, 11, 12 and 13 | Created for: | USMC Network variants created for ADCP and ADCP participation in AF Network AFBXMB04B | | | |
| Use Limitations: | IPF OVERRIDE = 100/50 | | | | | |
| Participants: | USMC Platforms | USN Platforms | USA Platforms | USAF Platforms | Other Platforms | |
| USMC Network 11 | 1 - ADCP | 3 - SHIP 1 - E2C 4 - F14D 4 - FA18 | NONE | 1 - F15E 1 - F15 1 - F15F 1 - F15J 1 - B1 1 - B2 1 - F-117 1 - B52 2 - RJ | 1 - JSTARS 2 - E3 1 - E3D 2 - ABCCC 2 - SJS 1 - AIC 1 - JRE_AF 1 - CRC | 4 - F3 1 - TALON_GW 1 - DBCC_ADSI 1 - UK_JCABIN |
| Operational Summary: | 1. Highest Platform TSDF = 46.05 | | | | | |
| Network Requested by: | MACS-2 ATTN: 1stLt Smith | | | | | |
| Send comments and Recommendations to: | USMC Network Design Facility Attn: AD-09 (MCNDF) Box 555171 Camp Pendleton, CA 92055-5171 E-mail: mcndf@mctssa.usmc.mil Website: http://www.mctssa.usmc.mil Telephone: DSN 365-2796/2133 COMM (760) 725-2796/2133 | | | | | |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

3.1 USMC Network 11 Functional Description – ADCP(1)

USMC Network 11 was developed as a variant of Air Force Network AFBXMB04B by the Marine Corps Network Design Facility to support joint ground and air training operations for USMC platforms. Network 11 variant allows ADCP(1) to use JSTARS(2) time slots as a participant in the network. The network participants are: F15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1), F14D(1)/4, FA18(1)/4, F3(1)/4, B1(1), B2(1), F117(1), B52(1), RJ(1)/2, TALON_GW(1), JSTARS(1), ADCP(1), E3(1)/2 E3D(1), ABCCC(1)/2, E2C(1), SHIP(1)/3, DBCC_ADSI(1), SJS(1), SJS(2), AIC(1), JRE_AF(1), CRC(1), UK_JCABIN(1).

NOTES:

4. Network **IPF Override** is set to **1**, **TSDF** is set to **100/50**, **Communications Mode** is set to **Mode 1**, **TDMA Range** is **300 nmi**, **TSEC** is set to **1** and **MSEC** is set to **0**.
5. **JICO oversees all responsibility in managing network TSDF, NTR, and Relay assignments.**
6. **ADCP(1) cannot be in the network if JSTARS(2) is a participant.**

3.2 Operational Summary

1. 100/50

All participants do not have line of sight with every other participant.

3.3 Use Limitations

1. 100/50 IPF

3.4 Participants

| USMC Platforms | USN Platforms | USA Platforms | USAF Platforms | Other |
|----------------|---------------|---------------|----------------|----------|
| 1 ADCP | 3 SHIP | NONE | 1 F15E | 1 F15J |
| | 1 E2C | | 1 F15 | 1 B1 |
| | 4 – F14D | | 1 F15F | 1 B2 |
| | 4 – FA18 | | 1 F-117 | 1 B52 |
| | | | 2 RJ | 1 JSTARS |
| | | | 2 E3 | 1 E3D |
| | | | 2 ABCCC | 2 SJS |
| | | | 1 AIC | 1 JRE_AF |
| | | | 1 CRC | |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

3.5 Network Participation Groups

NPG #3 (RTT-B)

| | |
|----------------|----------------------------|
| Participants: | All units transmit/receive |
| Access: | Contention access 4 |
| Capacity: | 8 total contention |
| Assigned Net: | 0 |
| Relay: | None |
| Packing Limit: | RTT |

NPG #5 (PPLI-A)

| | |
|----------------|--|
| Participants: | F14D(1)/4 and FA18(1)/4 transmit/receive All other NonC2 airborne platforms receive only. |
| Access: | Dedicated |
| Capacity: | 32 total slots |
| Assigned Net: | 1 |
| Relay: | No |
| Packing Limit: | P2DP |

NPG #6 (PPLI-B)

| | |
|----------------|---|
| Participants: | All units transmit/receive |
| Access: | Dedicated and Contention 8 Access |
| Capacity: | 152 total slots |
| Assigned Net: | Net 1 for F15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1), F3(1)/4, B1(1), B2(1), F-117(1), B52(1). Net 0 for all others. |
| Relay: | RJ(1)/2, JSTARS(1), E3(1)/2, ABCCC(1)/2, E2C, Ship(1)/3. |
| Packing Limit: | P2SP, P2DP and STD |

NPG #7 (Surveillance)

| | |
|---------------|--|
| Participants: | RJ(1)/2: transmit/receive. Own surveillance is not relayed. TALON_GW: transmit/receive. Own surveillance is not relayed. JSTARS(1): transmit/receive. Own surveillance is not relayed. ADCP(1): transmit/receive. Own surveillance is not relayed. E3(1)/2 and E3D: transmit/receive. Own surveillance is not relayed. E2C(1) and Ships(1)/3: transmit/receive (option pool) DBCC_ADSI(1): transmit/receive SJS(1)/2: transmit/receive AIC(1): transmit/receive JRE_AF(1): transmit/receive CRC(1): transmit/receive |
|---------------|--|

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1),
F14D(1)/4, FA18(1)/4, F3(1)/4, B1(1), B2(1), F-117(1),
B52(1), AIC(1), UK_JCABIN(1) receive only
All others: transmit/receive with relay.

Access: Dedicated and Dedicated slot with reuse.
Capacity: 416 total slots
Assigned Net: 0
Relay: RJ(1)/2, JSTARS(1), E3(1)/2, ABCCC(1)/2, E2C(1),
Ships(1)/3
Packing Limit: P2DP and P4

NPG #8 (Weapons Coordination and Mission Management)

Participants: JSTARS(1): transmit/receive not relayed.
ADCP(1): transmit/receive not relayed.
E3(1)/2: transmit/receive not relayed.
E3D(1): transmit/receive not relayed.
E2C(1) and Ship(1)/3: transmit/receive with relay.
DBCC_ADSI(1), JRE_AF(1), CRC(1): transmit/receive
with relay.
All others: receive only

Access: Dedicated
Capacity: 48 total slots
Assigned Net: 0
Relay: None
Packing Limit: P2DP and P4

NPG #9 (Fighter Air Control Uplink)

Participants: Talon_GW(1): transmit/receive
JSTARS(1): transmit/receive
ADCP(1): transmit/receive
E3(1)/2: transmit/receive
E3D(1): transmit/receive
CRC(1): transmit/receive
E2C(1), Ship(1)/3: transmit/receive
DBCC_ADSI(1): transmit/receive
JRE_AF: transmit/receive
CRC(1): transmit/receive
All others except ABCCC(1)/2 and RJ(1)/2: receive only

Access: Dedicated with slot reuse
Capacity: 32 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: P2SP

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NPG #9 (Fighter Air Control Backlink)

Participants: F15/F15E/F/J: transmit/recv
F3(1)/4: transmit/recv
F14D(1)/4 and FA18(1)/4: transmit/recv (option pool)
Talon_GW(1), JSTARS(1), ADCP(1), E3(1)/2, E3D,
E2C(1), Ships(1)/3, AIC(1), JRE_AF(1): receive only.
Access: Dedicate w/slot reuse, Dedicated and Contention Access 9
Capacity: 224 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: STD, P2DP

NPG #10 (Electronic Warfare)

Participants: RJ(1)/2: transmit/recv without relay
E3(1)/2 and E3D: transmit/recv without relay
E2C(1) and Ships(1)/3: transmit/recv with relay.
Access: Dedicated and Dedicated w/slot reuse
Capacity: 56 total slots
Assigned Net: 10
Relay: RJ(1)/2, JSTARS(1), E3(1)/2, ABCCC(1)/2, E2C(1) and
Ships(1)/3
Packing Limit: P4, P2DP

NPG #12 (Voice A – 2.4 Kbps)

Participants: F15, F15J, F14D(1)/4, FA18(1)/4, F3(1)/4: transmit/recv
RJ(1)/2: transmit/recv
E3(1)/2 and E3D: transmit/recv
E2C(1) and Ships(1)/3: transmit/recv
JRE_AF(1) and CRC(1): transmit/recv
Access: Contention Access 14
Capacity: 64 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: P2SP

NPG #14 (Indirect PPLI - IPPLI)

Participants: Ships(1)/3: transmit/recv
Access: Dedicated w/slot reuse
Capacity: 8 total slots
Assigned Net: 0
Relay: RJ(1)/2, JSTARS(1), E3(1)/2, ABCCC(1)/2, E2C(1) and
Ships(1)/3.
Packing Limit: P2DP

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NPG #17

| | |
|----------------|---|
| Participants: | Talon_GW(1): transmit/receive JSTARS(1): transmit/receive ADCP(1): transmit/receive DBCC_ADSI(1): transmit/receive SJS(1)/2: transmit/receive F15E(1.1.1), B1(1), B2(1), F117(1), RJ(1)/2, E3(1)/2 and ABCCC(1)/2: receive only |
| Access: | Dedicated w/slot reuse |
| Capacity: | 32 total slots |
| Assigned Net: | 0 |
| Relay: | RJ(1)/2, JSTARS(1), E3(1)/2, ABCCC(1)/2 |
| Packing Limit: | P4 |

NPG #19 (Fighter/Fighter Advisory)

| | |
|----------------|--|
| Participants: | E2C(1): transmit/receive F14D(1)/4 and FA18(1)/4 receive only |
| Access: | Dedicated |
| Capacity: | 2 total slots |
| Assigned Net: | 1 |
| Relay: | None |
| Packing Limit: | P2DP |

NPG #19 (Fighter/Fighter Targeting)

| | |
|----------------|--|
| Participants: | F15/F15E/F/J: transmit/receive F14D(1)/4 and FA18(1)/4: transmit/receive (option pool) E2C(1) and Ship(1)/3 receive only |
| Access: | Contention Access 14 and dedicated |
| Capacity: | 224 total slots |
| Assigned Net: | 1 and 2 |
| Relay: | None |
| Packing Limit: | STD |

NPG #20 (NC2/NC2 Fighter/Fighter Targeting)

| | |
|----------------|----------------------------|
| Participants: | F15E/F15: transmit/receive |
| Access: | Contention Access 14 |
| Capacity: | 64 total slots |
| Assigned Net: | 1 |
| Relay: | None |
| Packing Limit: | P2SP |

NPG #29 (Residual Messages)

| | |
|---------------|---|
| Participants: | JSTARS(1): transmit/receive ADCP(1): transmit/receive E3(1)/2: transmit/receive ABCCC(1): transmit/receive |
|---------------|---|

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

| | |
|-----------------------------|---|
| | SJS(1)/2: transmit/receive |
| Access: | Dedicated |
| Capacity: | 32 total slots |
| Assigned Net: | 1 |
| Relay: | None. |
| Packing Limit: | P2SP |
| | |
| NPG #30 (P-Messages) | |
| Participants: | RJ(1)/2, Talon_GW(1), JSTARS(1), ADCP(1), E3(1)/2, E3D, ABCCC(1)/2, E2C(1): transmit/receive |
| Access: | STD |
| Capacity: | 12 total slots |
| Assigned Net: | 0 |
| Relay: | None |
| Packing Limit: | STD |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

APPENDIX A – AFBXMB04B/USMC Network 11

CONNECTIVITY MATRIX
PULSE DENSITY REPORT
ALLOCATION TABLE
COMSEC CROSS REFERENCE TABLE
TIME LINE DISPLAY
NDL FILENAME TABLE

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMB04B/USMC Network 11

| Slot Group | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------------|----------------------------------|----------------|--------------|------|------|------|------|-----|-----|-----|----|----|-----|-----|-----|----|-----|-----|------|----|----|
| NPG Number | | 3 | 30 | 5 | 6 | 6 | TY | 6 | 6 | TY | 7 | 7 | 7 | TY | 7 | TY | 7 | 7 | 7 | TY | |
| Net Number | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TSEC Variable | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MSEC Variable | | | | | | | | | | | | | | | | | | | | | |
| Access Mode | | 4 | D | D | D | D | D | | 8 | D | | D | D | D | | D | D | D | D | D | |
| Packing Limit | | | STD | P2DP | P2DP | P2SP | P2SP | | STD | STD | | P4 | P4 | P4 | | P4 | P4 | P4 | P2DP | | |
| Per Unit Slots/Frame | | 1 | 4 | 2 | 2 | 1 | | | | | 8 | 4 | 8 | 4 | | 40 | 4 | | | | |
| Total Slots/Frame | | 8 | 12 | 32 | 16 | 28 | 12 | 12 | 96 | 48 | 48 | 16 | 8 | 16 | 16 | 8 | 8 | 160 | 8 | 80 | 80 |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | | | | | | | | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 2.F15(3.1.1) | Y | 0 | T | | R | R | R | | T | | | R | R | | | | R | R | R | | |
| 3.F15F(3.1.1) | Y | 0 | T | | R | R | R | | T | | | R | | | | R | R | R | | | |
| 4.F15J(4.1.1) | Y | 0 | T | | R | R | R | | T | | | R | | | | R | R | R | | | |
| 5.F14D(1.1)/4 | Y | 0 | T | | T/R | T/R | R | | R | | | R | R | | | R | R | R | | | |
| 6.FA18(1.1)/4 | Y | 0 | T | | T/R | T/R | R | | R | | | R | R | R | | R | R | R | | | |
| 7.F3(1.1)/4 | Y | 0 | T | | R | R | R | | T | | | R | R | | | R | R | R | | | |
| 8.B1(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 9.B2(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 10.F-117(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 11.B52(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 12.RJ(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | T/R | T/R | R | Y | R | R | R | Y | |
| 13.RJ(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | T/R | T/R | R | Y | R | R | R | Y | |
| 14.Talon_GW(1) | Y | 0 | T | T/R | | R | T/R | R | | | R | R | R | R | R | | T/R | R | R | | |
| 15.JSTARS(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | T/R | Y | T/R | Y | R | R | |
| 16.ADCP(1) | Y | 0 | T | T/R | | R | T/R | R | R | | R | R | R | R | T/R | R | T/R | R | R | R | |
| 17.E3(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 18.E3(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 19.E3D(1) | Y | 0 | T | T/R | | R | T/R | R | | | R | R | R | R | | | T/R | R | R | R | |
| 20.ABCCC(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 21.ABCCC(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 22.E2C(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | R | R | R | | | R | R | O | Y | |
| 23.SHIP(1) | Y | 0 | T | | | R | R | T/R | Y | | R | R | R | R | | | R | R | O | Y | |
| 24.SHIP(2) | Y | 0 | T | | | R | R | T/R | Y | | R | R | R | R | | | R | R | O | Y | |
| 25.SHIP(3) | Y | 0 | T | | | R | R | T/R | Y | | R | R | R | R | | | R | R | O | Y | |
| 26.DBCC_ADSI(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 27.SJS(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 28.SJS(2) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 29.AIC(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 30.JRE_AF(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 31.CRC(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 32.UK_JCabin(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMB04B/USMC Network 11 Cont'd

| Slot Group | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | | |
|----------------------|----------------------------------|----------------|--------------|----|-----|----|-----|------|-----|------|-----|------|------|-----|------|-----|------|-----|------|------|----|---|---|
| NPG Number | | 7 | TY | 7 | TY | 7 | TY | 8 | 8 | TY | 8 | TY | 9 | 9 | 9 | 9 | 10 | 10 | TY | 12 | 14 | | |
| Net Number | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 127 | 127 | 127 | 10 | 10 | 10 | 127 | 0 | | |
| TSEC Variable | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| MSEC Variable | | | | | | | | | | | | | | | | | | | | | | | |
| Access Mode | | R | | D | | D | | D | D | | D | | R | D | 9 | D | D | D | | D | R | | |
| Packing Limit | | P4 | | P4 | | P4 | | P2DP | | P2DP | | P2SP | P2SP | STD | P2DP | P4 | P2DP | | P2SP | P2DP | | | |
| Per Unit Slots/Frame | | | | 4 | | 24 | | 4 | 4 | | 4 | | | | | | 8 | 4 | | | | | |
| Total Slots/Frame | | 64 | 64 | 8 | 8 | 48 | 48 | 20 | 12 | 12 | 16 | 16 | 16 | 16 | 128 | 64 | 40 | 16 | 16 | 64 | 8 | | |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | | | | | | | | | | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | | R | | | |
| 2.F15(3.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | T | R | | | T | R | | |
| 3.F15F(3.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | | R | | | |
| 4.F15J(4.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | T | T | R | | T | R | | |
| 5.F14D(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | R | O | | | T | R | | |
| 6.FA18(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | R | O | | | T | R | | |
| 7.F3(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | T | R | | | T | R | | |
| 8.B1(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | | | | | | R | | |
| 9.B2(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | | R | | |
| 10.F-117(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | | R | | |
| 11.B52(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | | R | | |
| 12.RJ(1) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | T/R | R | Y | T | R | |
| 13.RJ(2) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | T/R | R | Y | T | R | |
| 14.Talon_GW(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | R | | | | R | | |
| 15.JSTARS(1) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | | R | R | R | Y | R | | |
| 16.ADCP(1) | Y | 0 | R | R | R | R | R | R | T/R | R | R | R | R | T | | | R | R | R | R | R | | |
| 17.E3(1) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | | R | R | T/R | R | Y | T | R |
| 18.E3(2) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | | R | R | T/R | R | Y | T | R |
| 19.E3D(1) | Y | 0 | R | R | R | R | R | R | T/R | R | R | R | R | T | | | R | R | T/R | R | R | T | R |
| 20.ABCCC(1) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | | | R | Y | | R |
| 21.ABCCC(2) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | | | R | Y | | R |
| 22.E2C(1) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | | R | R | R | T/R | Y | T | R |
| 23.SHIP(1) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | | R | R | R | T/R | Y | T | T |
| 24.SHIP(2) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | | R | R | R | T/R | Y | T | T |
| 25.SHIP(3) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | | R | R | R | T/R | Y | T | T |
| 26.DBCC_ADSI(1) | Y | 0 | T | | R | R | R | | R | R | T/R | R | R | T | | | R | R | R | R | R | R | R |
| 27.SJS(1) | Y | 0 | R | R | T/R | R | R | R | R | R | R | R | R | R | | | | | | | | | R |
| 28.SJS(2) | Y | 0 | R | R | T/R | R | R | R | R | R | R | R | R | R | | | | | | | | | R |
| 29.AIC(1) | Y | 0 | T | R | R | R | R | R | R | R | R | | | | | | | | | | | | R |
| 30.JRE_AF(1) | Y | 0 | R | R | R | R | T/R | R | R | T/R | R | R | R | T | | | R | R | | | | T | R |
| 31.CRC(1) | Y | 0 | R | R | R | R | T/R | R | R | T/R | R | R | R | T | | | R | R | | | | T | R |
| 32.UK_JCabin(1) | Y | 0 | R | R | R | R | R | R | R | R | R | R | R | R | | | | | | | | | R |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMB04B/USMC Network 11 Cont'd

| Slot Group | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
|----------------------|----------------------------------|----------------|--------------|------|------|------|-----|----|----|
| NPG Number | TY | 19 | 19 | 19 | 19 | 20 | 29 | 17 | TY |
| Net Number | 0 | 1 | 1 | 2 | 1 | 1 | 10 | 5 | 5 |
| TSEC Variable | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| MSEC Variable | | | | | | | | | |
| Access Mode | | D | 14 | D | D | 14 | D | R | |
| Packing Limit | | P2DP | P2SP | P2DP | P2DP | P2SP | P4 | P4 | |
| Per Unit Slots/Frame | | | | | | | 4 | | |
| Total Slots/Frame | 8 | 2 | 160 | 64 | 96 | 64 | 36 | 32 | 32 |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | | | T | | T | R | R |
| 2.F15(3.1.1) | Y | 0 | | | T | | T | | |
| 3.F15F(3.1.1) | Y | 0 | | | T | | T | | |
| 4.F15J(4.1.1) | Y | 0 | | | T | | T | | |
| 5.F14D(1.1)/4 | Y | 0 | | R | | O | R | | |
| 6.FA18(1.1)/4 | Y | 0 | | R | | O | R | | |
| 7.F3(1.1)/4 | Y | 0 | | | R | | | | |
| 8.B1(1) | Y | 0 | | | | | | R | R |
| 9.B2(1) | Y | 0 | | | | | | R | R |
| 10.F-117(1) | Y | 0 | | | | | | R | R |
| 11.B52(1) | Y | 0 | | | | | | R | R |
| 12.RJ(1) | Y | 0 | Y | | | | | R | Y |
| 13.RJ(2) | Y | 0 | Y | | | | | R | Y |
| 14.Talon_GW(1) | Y | 0 | R | | | | R | T | |
| 15.JSTARS(1) | Y | 0 | Y | | | | T/R | T | Y |
| 16.ADCP(1) | Y | 0 | R | | | | T/R | T | R |
| 17.E3(1) | Y | 0 | Y | | | | T/R | R | Y |
| 18.E3(2) | Y | 0 | Y | | | | T/R | R | Y |
| 19.E3D(1) | Y | 0 | R | | | | | | |
| 20.ABCCC(1) | Y | 0 | Y | | | | T/R | R | Y |
| 21.ABCCC(2) | Y | 0 | Y | | | | T/R | R | Y |
| 22.E2C(1) | Y | 0 | Y | T | | R | | | |
| 23.SHIP(1) | Y | 0 | Y | | | R | | | |
| 24.SHIP(2) | Y | 0 | Y | | | R | | | |
| 25.SHIP(3) | Y | 0 | Y | | | R | | | |
| 26.DBCC_ADSI(1) | Y | 0 | R | | | | | T | |
| 27.SJS(1) | Y | 0 | R | | | | T/R | T | |
| 28.SJS(2) | Y | 0 | R | | | | T/R | T | |
| 29.AIC(1) | Y | 0 | R | | | | | | |
| 30.JRE_AF(1) | Y | 0 | R | | | | | | |
| 31.CRC(1) | Y | 0 | R | | | | | | |
| 32.UK_JCabin(1) | Y | 0 | R | | | | | | |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Pulse Density Report – AFBXMB04B/USMC Network 11

| Check for Active Platform | Participant | Data Without Relay | Data With Relay |
|---------------------------|--------------|--------------------|-----------------|
| | F15E(1.1.1) | 30.35% | 32.43% |
| | F15(3.1) | 30.35% | 32.43% |
| | F15F(3.1.1) | 30.35% | 32.43% |
| | F15J(4.1.1) | 30.35% | 32.43% |
| | F14D(1.1) | 3.64% | 5.73% |
| | F14D(1.2) | 3.64% | 5.73% |
| | F14D(1.3) | 3.64% | 5.73% |
| | F14D(1.4) | 2.60% | 2.60% |
| | FA18(1.1) | 2.60% | 2.60% |
| | FA18(1.2) | 2.60% | 4.69% |
| | FA18(1.3) | 2.60% | 4.69% |
| | FA18(1.4) | 2.60% | 4.69% |
| | F3(1.1) | 14.72% | 14.72% |
| | F3(1.2) | 14.72% | 14.72% |
| | F3(1.3) | 14.72% | 14.72% |
| | F3(1.4) | 14.72% | 14.72% |
| | B1(1) | 6.39% | 6.39% |
| | B2(1) | 6.39% | 6.39% |
| | F117(1) | 6.39% | 6.39% |
| | B52(1) | 6.39% | 6.39% |
| | RJ(1) | 2.57% | 40.99% |
| | RJ(2) | 2.57% | 40.99% |
| | Talon_GW(1) | 9.44% | 13.35% |
| | JSTARS(1) | 7.20% | 45.60% |
| | ADCP(1) | 7.20% | 7.20% |
| | E3(1) | 7.65% | 46.05% |
| | E3(2) | 7.65% | 46.05% |
| | E3D(1) | 7.20% | 14.22% |
| | ABCCC(1) | 1.23% | 36.51% |
| | ABCCC(2) | 1.23% | 36.51% |
| | E2C(1) | 3.39% | 17.62% |
| | SHIP(1) | 3.93% | 18.16% |
| | SHIP(2) | 3.93% | 18.16% |
| | SHIP(3) | 3.93% | 18.16% |
| | DBCC_ADSI(1) | 11.41% | 13.20% |
| | SJS(1) | 4.68% | 4.68% |
| | SJS(2) | 4.68% | 4.68% |
| | AIC(1) | 7.37% | 7.37% |
| | JRE_AF(1) | 4.38% | 4.38% |
| | CRC(1) | 4.38% | 4.38% |
| | UK_Jcabin(1) | 0.20% | 0.20% |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Pulse Density Report – AFBXMB04B/USMC Network 11 Cont'd

| If the Frequency Assignment authorizes TADIL-J Voice, add the below percentage to the above platform transmitting TADIL-J Voice. | | | |
|--|--|---------------|------------|
| | | Voice % | Voice % |
| | | Without Relay | With relay |

| | | Voice % | Voice % |
|----------|---------|---------------|------------|
| | | Without Relay | With relay |
| 2.4 Kbps | Voice A | 0.0% | 4.17% |
| | Voice B | N/A | N/A |

Example of TSDF calculation:

$$\text{E3(1): } (\text{Data with Relay} = 46.05\%) + (\text{Voice 'A' with Relay} = 4.17\%) \\ \text{Total Data/Voice with Relay} = 50.22\%$$

In the above example you would enter the result into the Deconfliction Server. Other platform results may vary if Voice or Relay is used.

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Allocation Table – AFBXMB04B/USMC Network 11

| SB / Agg | Net Req. | Net | Set | Idx | RRN |
|----------|----------|-----|-----|-----|-----|
| 1.1 | 0 | 0 | B | 50 | 9 |
| 2.1 | | 0 | C | 22 | 9 |
| 2.2 | | 0 | C | 54 | 8 |
| 3.1 | | 1 | A | 6 | 11 |
| 4.1 | 0 | 0 | C | 14 | 10 |
| 5.1 | 0 | 0 | C | 27 | 10 |
| 5.2 | 0 | 0 | C | 62 | 9 |
| 5.3 | 0 | 0 | C | 90 | 8 |
| 6.1 | 0 | 0 | A | 19 | 9 |
| 6.2 | 0 | 0 | A | 99 | 8 |
| 7.1 | | 0 | A | 27 | 9 |
| 7.2 | | 0 | A | 107 | 8 |
| 8.1 | | 1 | B | 1 | 12 |
| 8.2 | | 1 | B | 5 | 11 |
| 9.1 | | 1 | B | 1 | 10 |
| 9.2 | | 1 | B | 9 | 10 |
| 9.3 | | 1 | B | 21 | 10 |
| 10.1 | | 0 | B | 5 | 10 |
| 10.2 | | 0 | B | 17 | 10 |
| 10.3 | | 0 | B | 25 | 10 |
| 11.1 | 0 | 0 | C | 6 | 10 |
| 12.1 | 0 | 0 | C | 11 | 9 |
| 13.1 | 0 | 0 | B | 10 | 10 |
| 14.1 | | 0 | B | 13 | 10 |
| 15.1 | 0 | 0 | B | 26 | 9 |
| 16.1 | | 0 | B | 29 | 9 |
| 17.1 | 0 | 0 | C | 1 | 11 |
| 17.2 | 0 | 0 | C | 9 | 11 |
| 17.3 | 0 | 0 | C | 5 | 11 |
| 17.4 | 0 | 0 | C | 13 | 11 |
| 17.5 | 0 | 0 | C | 3 | 9 |
| 17.6 | 0 | 0 | C | 35 | 9 |
| 17.7 | 0 | 0 | C | 19 | 9 |
| 17.8 | 0 | 0 | C | 51 | 9 |
| 18.1 | 0 | 0 | B | 55 | 9 |
| 19.1 | 0 | 0 | A | 0 | 12 |
| 19.2 | 0 | 0 | A | 4 | 10 |
| 20.1 | | 0 | A | 2 | 12 |
| 20.2 | | 0 | A | 6 | 10 |
| 21.1 | 0 | 0 | A | 1 | 12 |
| 22.1 | | 0 | A | 5 | 12 |
| 23.1 | 0 | 0 | B | 18 | 9 |
| 24.1 | | 0 | B | 23 | 9 |
| 25.1 | 0 | 0 | A | 12 | 10 |
| 25.2 | 0 | 0 | A | 28 | 10 |
| 25.3 | 0 | 0 | A | 20 | 9 |
| 25.4 | 0 | 0 | A | 52 | 9 |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Allocation Table – AFBXMB04B/USMC Network 11 Cont'd

| SB / Agg | Net Req. | Net | Set | Idx | RRN |
|----------|----------|-----|-----|-----|-----|
| 26.1 | | 0 | A | 14 | 10 |
| 26.2 | | 0 | A | 30 | 10 |
| 26.3 | | 0 | A | 22 | 9 |
| 26.4 | | 0 | A | 54 | 9 |
| 27.1 | 0 | 0 | C | 10 | 10 |
| 27.2 | 0 | 0 | C | 26 | 8 |
| 28.1 | 0 | 0 | A | 3 | 9 |
| 28.2 | 0 | 0 | A | 35 | 8 |
| 29.1 | 0 | 0 | A | 11 | 9 |
| 29.2 | 0 | 0 | A | 43 | 8 |
| 30.1 | 0 | 0 | B | 2 | 10 |
| 31.1 | 0 | 0 | B | 7 | 10 |
| 32.1 | 127 | 127 | B | 15 | 10 |
| 33.1 | 127 | 127 | B | 31 | 10 |
| 34.1 | 127 | 127 | B | 0 | 13 |
| 35.1 | 127 | 127 | B | 6 | 12 |
| 36.1 | | 10 | B | 19 | 10 |
| 36.2 | | 10 | B | 27 | 10 |
| 36.3 | | 0 | C | 58 | 9 |
| 37.1 | | 10 | B | 3 | 10 |
| 38.1 | | 10 | B | 11 | 10 |
| 39.1 | 127 | 127 | C | 7 | 12 |
| 40.1 | 0 | 0 | A | 51 | 9 |
| 41.1 | | 0 | A | 59 | 9 |
| 42.1 | | 1 | A | 254 | 7 |
| 43.1 | | 1 | C | 0 | 12 |
| 43.2 | | 1 | C | 4 | 12 |
| 43.3 | | 1 | C | 2 | 11 |
| 44.1 | | 2 | C | 0 | 12 |
| 45.1 | | 1 | C | 4 | 12 |
| 45.2 | | 1 | C | 2 | 11 |
| 46.1 | | 1 | B | 3 | 12 |
| 47.1 | | 10 | C | 4 | 11 |
| 47.2 | | 10 | C | 12 | 8 |
| 48.1 | | 5 | A | 7 | 11 |
| 49.1 | | 5 | A | 15 | 11 |

AFBXMB04B/USMC Network 11
 MARINE CORPS NETWORK DESIGN FACILITY
 NETWORK DESCRIPTION

COMSEC Cross Reference Table – AFBXMB04B/USMC Network 11

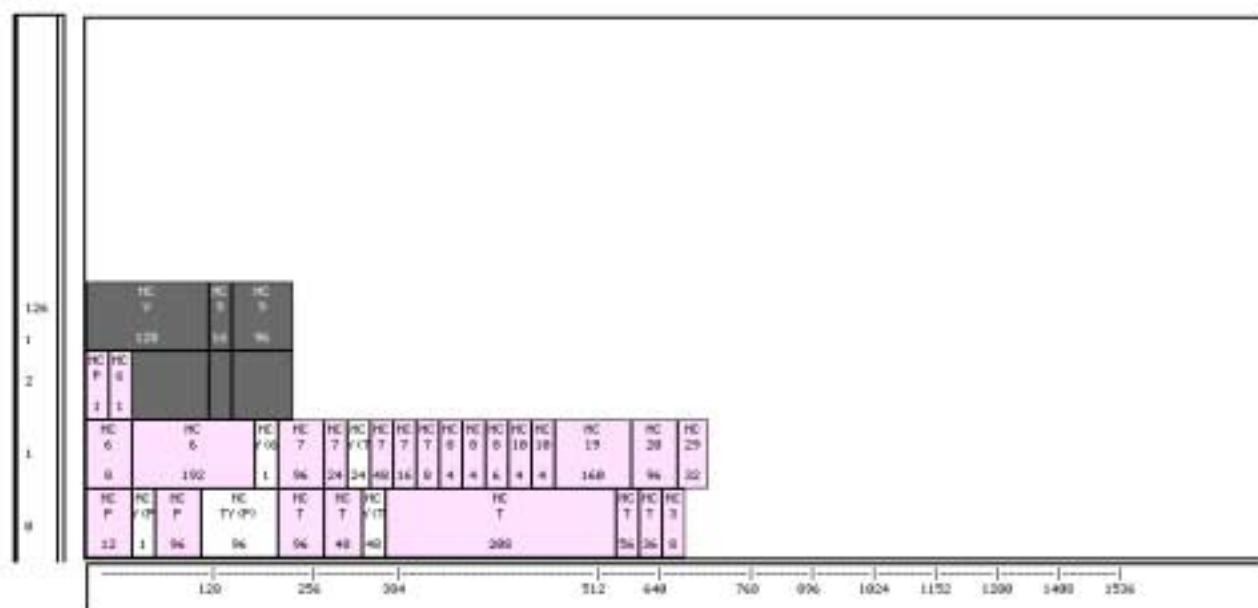
| Default MSEC = 0 | | Default TSEC = 1 | | | |
|------------------|---------------|------------------|-----|-----|----------|
| Participant | SDU Locations | | | | |
| | 0/1 | 2/3 | 4/5 | 6/7 | Overflow |
| F15E(1.1.1) | 1 | 2 | | | |
| F15(3.1.1) | 1 | 2 | | | |
| F15F(3.1.1) | 1 | 2 | | | |
| F15J(4.1.1) | 1 | 2 | | | |
| F14D(1.1)/4 | 1 | | | | |
| FA18(1.1)/4 | 1 | | | | |
| F3(1.1)/4 | 1 | | | | |
| B1(1) | 1 | | | | |
| B2(1) | 1 | | | | |
| F-117(1) | 1 | | | | |
| B52(1) | 1 | | | | |
| RJ(1) | 1 | | | | |
| RJ(2) | 1 | | | | |
| Talon_GW(1) | 1 | | | | |
| JSTARS(1) | 1 | | | | |
| ADCP(1) | 1 | | | | |
| E3(1) | 1 | | | | |
| E3(2) | 1 | | | | |
| E3D(1) | 1 | | | | |
| ABCCC(1) | 1 | | | | |
| ABCCC(2) | 1 | | | | |
| E2C(1) | 1 | | | | |
| SHIP(1) | 1 | | | | |
| SHIP(2) | 1 | | | | |
| SHIP(3) | 1 | | | | |
| DBCC_ADDS(1) | 1 | | | | |
| SJS(1) | 1 | | | | |
| SJS(2) | 1 | | | | |
| AIC(1) | 1 | | | | |
| JRE_AF(1) | 1 | | | | |
| CRC(1) | 1 | | | | |
| UK_JCabin(1) | 1 | | | | |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Time Line – AFBXMB04B/USMC Network 11

Time Line Display Status: CREATED

Nets



Total Slots/Frame

Note: Not to scale

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NDL File Name Table

Platforms referenced in the below table correspond with specific NDL file names or Network file identification numbers for each respective participant platform.

| Network Platform Name By Service | | File Name/Network Used By Host System |
|---|---------|--|
| Marine Corps | | |
| ADCP | ADCP(1) | ADCP1_11.PF |
| | | |

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

APPENDIX B – AFBXMB04B/USMC Network 11

SHORT FORM REPORT FOR ADCP (1)

AFBXMB04B/USMC Network 11
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Participant ADCP (1)

| Participant | Block Id. No. | Slot Type | Msg Cat | Total Slots Req'd | Slot Blocks Req'd | Slot Group A=Agg | Slot Group Elemt. | Set | Index | RRN | Net | Relay Delay |
|-------------|---------------|-----------|---------|-------------------|-------------------|------------------|-------------------|-----|-------|-----|-----|-------------|
| ADCP(1) | 1 | T | 3 | 8 | 8 | 1.1 | 0 | B | 50 | 9 | 0 | 0 |
| | 2 | T | 30 | 1 | 1 | 2.1 | 5 | C | 86 | 6 | 0 | 0 |
| | 3 | T | 6 | 2 | 2 | 5.1 | 5 | C | 59 | 7 | 0 | 0 |
| | 4 | T | 7 | 8 | 8 | 13.1 | 2 | B | 42 | 9 | 0 | 0 |
| | 5 | T | 7 | 4 | 4 | 15.1 | 2 | B | 90 | 8 | 0 | 0 |
| | 6 | T | 8 | 4 | 4 | 27.1 | 2 | C | 74 | 8 | 0 | 0 |
| | 7 | T | 9 | 16 | 16 | 32.1 | 0 | B | 15 | 10 | 127 | 0 |
| | 8 | T | 29 | 4 | 4 | 47.1 | 2 | C | 68 | 8 | 10 | 0 |
| | 9 | T | 17 | 32 | 32 | 48.1 | 0 | A | 7 | 11 | 5 | 0 |
| | 10 | R | 6 | 48 | 16 | 9.1 | 0 | B | 1 | 10 | 1 | 0 |
| | 11 | R | 6 | | 16 | 9.2 | 0 | B | 9 | 10 | 1 | 0 |
| | 12 | R | 6 | | 16 | 9.3 | 0 | B | 21 | 10 | 1 | 0 |
| | 13 | R | 9 | 128 | 128 | 34.1 | 0 | B | 0 | 13 | 127 | 0 |
| | 14 | R | 9 | 64 | 64 | 35.1 | 0 | B | 6 | 12 | 127 | 0 |
| | 15 | R | 10 | 16 | 16 | 37.1 | 0 | B | 3 | 10 | 10 | 24 |
| | 16 | R | 29 | 36 | 32 | 47.1 | 0 | C | 4 | 11 | 10 | 0 |
| | 17 | R | 29 | | 4 | 47.2 | 0 | C | 12 | 8 | 10 | 0 |
| | 18 | R | 17 | 32 | 32 | 49.1 | 0 | A | 15 | 11 | 5 | 0 |
| | 65 | R | 30 | 12 | 8 | 2.1 | 0 | C | 22 | 9 | 0 | 0 |
| | 66 | R | 30 | | 4 | 2.2 | 0 | C | 54 | 8 | 0 | 0 |
| | 67 | R | 6 | 16 | 16 | 4.1 | 0 | C | 14 | 10 | 0 | 0 |
| | 68 | R | 6 | 28 | 16 | 5.1 | 0 | C | 27 | 10 | 0 | 0 |
| | 69 | R | 6 | | 8 | 5.2 | 0 | C | 62 | 9 | 0 | 0 |
| | 70 | R | 6 | | 4 | 5.3 | 0 | C | 90 | 8 | 0 | 0 |
| | 71 | R | 6 | 12 | 8 | 6.1 | 0 | A | 19 | 9 | 0 | 0 |
| | 72 | R | 6 | | 4 | 6.2 | 0 | A | 99 | 8 | 0 | 0 |
| | 73 | R | 6 | 12 | 8 | 7.1 | 0 | A | 27 | 9 | 0 | 0 |
| | 74 | R | 6 | | 4 | 7.2 | 0 | A | 107 | 8 | 0 | 0 |
| | 75 | R | 6 | 48 | 16 | 10.1 | 0 | B | 5 | 10 | 0 | 0 |
| | 76 | R | 6 | | 16 | 10.2 | 0 | B | 17 | 10 | 0 | 0 |
| | 77 | R | 6 | | 16 | 10.3 | 0 | B | 25 | 10 | 0 | 0 |
| | 78 | R | 7 | 16 | 16 | 11.1 | 0 | C | 6 | 10 | 0 | 0 |
| | 79 | R | 7 | 8 | 8 | 12.1 | 0 | C | 11 | 9 | 0 | 0 |
| | 80 | R | 7 | 16 | 16 | 13.1 | 0 | B | 10 | 10 | 0 | 0 |
| | 81 | R | 7 | 16 | 16 | 14.1 | 0 | B | 13 | 10 | 0 | 0 |
| | 82 | R | 7 | 8 | 8 | 15.1 | 0 | B | 26 | 9 | 0 | 0 |
| | 83 | R | 7 | 8 | 8 | 16.1 | 0 | B | 29 | 9 | 0 | 0 |
| | 84 | R | 7 | 160 | 32 | 17.1 | 0 | C | 1 | 11 | 0 | 0 |
| | 85 | R | 7 | | 32 | 17.2 | 0 | C | 9 | 11 | 0 | 0 |
| | 86 | R | 7 | | 32 | 17.3 | 0 | C | 5 | 11 | 0 | 0 |
| | 87 | R | 7 | | 32 | 17.4 | 0 | C | 13 | 11 | 0 | 0 |
| | 88 | R | 7 | | 8 | 17.5 | 0 | C | 3 | 9 | 0 | 0 |
| | 89 | R | 7 | | 8 | 17.6 | 0 | C | 35 | 9 | 0 | 0 |
| | 90 | R | 7 | | 8 | 17.7 | 0 | C | 19 | 9 | 0 | 0 |
| | 91 | R | 7 | | 8 | 17.8 | 0 | C | 51 | 9 | 0 | 0 |
| | 92 | R | 7 | 8 | 8 | 18.1 | 0 | B | 55 | 9 | 0 | 0 |
| | 93 | R | 7 | 80 | 64 | 19.1 | 0 | A | 0 | 12 | 0 | 0 |
| | 94 | R | 7 | | 16 | 19.2 | 0 | A | 4 | 10 | 0 | 0 |
| | 95 | R | 7 | 80 | 64 | 20.1 | 0 | A | 2 | 12 | 0 | 0 |
| | 96 | R | 7 | | 16 | 20.2 | 0 | A | 6 | 10 | 0 | 0 |
| | 97 | R | 7 | 64 | 64 | 21.1 | 0 | A | 1 | 12 | 0 | 0 |
| | 98 | R | 7 | 64 | 64 | 22.1 | 0 | A | 5 | 12 | 0 | 0 |
| | 99 | R | 7 | 8 | 8 | 23.1 | 0 | B | 18 | 9 | 0 | 0 |
| | 100 | R | 7 | 8 | 8 | 24.1 | 0 | B | 23 | 9 | 0 | 0 |
| | 101 | R | 7 | 48 | 16 | 25.1 | 0 | A | 12 | 10 | 0 | 0 |
| | 102 | R | 7 | | 16 | 25.2 | 0 | A | 28 | 10 | 0 | 0 |
| | 103 | R | 7 | | 8 | 25.3 | 0 | A | 20 | 9 | 0 | 0 |
| | 104 | R | 7 | | 8 | 25.4 | 0 | A | 52 | 9 | 0 | 0 |
| | 105 | R | 7 | 48 | 16 | 26.1 | 0 | A | 14 | 10 | 0 | 0 |
| | 106 | R | 7 | | 16 | 26.2 | 0 | A | 30 | 10 | 0 | 0 |
| | 107 | R | 7 | | 8 | 26.3 | 0 | A | 22 | 9 | 0 | 0 |
| | 108 | R | 7 | | 8 | 26.4 | 0 | A | 54 | 9 | 0 | 0 |
| | 109 | R | 8 | 20 | 16 | 27.1 | 0 | C | 10 | 10 | 0 | 0 |
| | 110 | R | 8 | | 4 | 27.2 | 0 | C | 26 | 8 | 0 | 0 |
| | 111 | R | 8 | 12 | 8 | 28.1 | 0 | A | 3 | 9 | 0 | 0 |
| | 112 | R | 8 | | 4 | 28.2 | 0 | A | 35 | 8 | 0 | 0 |
| | 113 | R | 8 | 16 | 16 | 30.1 | 0 | B | 2 | 10 | 0 | 0 |
| | 114 | R | 14 | 8 | 8 | 40.1 | 0 | A | 51 | 9 | 0 | 0 |
| | 115 | R | 14 | 8 | 8 | 41.1 | 0 | A | 59 | 9 | 0 | 0 |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Section 4

Network AFBXMC04B

USMC Network 12 – JTAOM(1)

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

| 4.0 Executive Summary – AFBXMC04B/USMC Network 12 | | | | | | | | | |
|--|---|---|--|---|--|--|--|--|--|
| Network: | AFBXMC04B USMC Networks 10, 11, 12 and 13 | Created for: | USMC Network variants created for ADCP and JTAOM participation in AF Network AFBXMC04B | | | | | | |
| Use Limitations: | | IPF OVERRIDE = 100/50 | | | | | | | |
| Participants: | USMC Platforms | USN Platforms | USA Platforms | USAF Platforms | Other Platforms | | | | |
| USMC Network 12 | 1 - JTAOM | 3 - SHIP 1 - E2C 4 - F14D 4 - FA18 | NONE | 1 - F15E 2 - JSTARS 1 - F15 2 - E3 1 - F15F 1 - E3D 1 - F15J 2 - ABCCC 1 - B1 2 - SJS 1 - B2 1 - AIC 1 - F-117 1 - JRE_AF 1 - B52 2 - RJ | 4 - F3 1 - TALON_GW 1 - DBCC_ADSI 1 - UK_JCABIN | | | | |
| Operational Summary: | | 1. Highest Platform TSDF = 46.05 | | | | | | | |
| Network Requested by: | MACS-2 ATTN: 1stLt Smith | | | | | | | | |
| Send comments and Recommendations to: | USMC Network Design Facility Attn: AD-09 (MCNDF) Box 555171 Camp Pendleton, CA 92055-5171 E-mail: mcndf@mctssa.usmc.mil Website: http://www.mctssa.usmc.mil Telephone: DSN 365-2796/2133 COMM (760) 725-2796/2133 | | | | | | | | |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

4.1 USMC Network 12 Functional Description – JTAOM(1)

USMC Network 12 was developed as a variant of Air Force Network AFBXMC04B by the Marine Corps Network Design Facility to support joint ground and air training operations for USMC platforms. Network 12 variant allows JTAOM(1) to use CRC(1) time slots as a participant in the network. The network participants are: F15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1), F14D(1)/4, FA18(1)/4, F3(1)/4, B1(1), B2(1), F117(1), B52(1), RJ(1)/2, TALON_GW(1), JSTARS(1)/2, E3(1)/2 E3D(1), ABCCC(1)/2, E2C(1), SHIP(1)/3, DBCC_ADSI(1), SJS(1), SJS(2), AIC(1), JRE_AF(1), JTAOM(1), UK_JCABIN(1).

NOTES:

7. Network **IPF Override** is set to **1**, **TSDF** is set to **100/50**, **Communications Mode** is set to **Mode 1**, **TDMA Range** is **300 nmi**, **TSEC** set to **1** and **MSEC** is set to **0**.
8. **JICO oversees all responsibility in managing network TSDF, NTR, and Relay assignments.**
9. **JTAOM(1) cannot be in the network if CRC(1) is a participant.**

4.2 Operational Summary

1. 100/50

All participants do not have line of sight with every other participant.

4.3 Use Limitations

1. 100/50 IPF

4.4 Participants

| USMC Platforms | USN Platforms | USA Platforms | USAF Platforms | Other |
|----------------|---------------|---------------|----------------|----------|
| 1 JTAOM | 3 SHIP | NONE | 1 F15E | 1 F15J |
| | 1 E2C | | 1 F15 | 1 B1 |
| | 4 – F14D | | 1 F15F | 1 B2 |
| | 4 – FA18 | | 1 F-117 | 1 B52 |
| | | | 2 RJ | 2 JSTARS |
| | | | 2 E3 | 1 E3D |
| | | | 2 ABCCC | 2 SJS |
| | | | 1 AIC | 1 JRE_AF |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

4.5 Network Participation Groups

NPG #3 (RTT-B)

| | |
|----------------|----------------------------|
| Participants: | All units transmit/receive |
| Access: | Contention access 4 |
| Capacity: | 8 total contention |
| Assigned Net: | 0 |
| Relay: | None |
| Packing Limit: | RTT |

NPG #5 (PPLI-A)

| | |
|----------------|--|
| Participants: | F14D(1)/4 and FA18(1)/4 transmit/receive All other NonC2 airborne platforms receive only. |
| Access: | Dedicated |
| Capacity: | 32 total slots |
| Assigned Net: | 1 |
| Relay: | No |
| Packing Limit: | P2DP |

NPG #6 (PPLI-B)

| | |
|----------------|---|
| Participants: | All units transmit/receive |
| Access: | Dedicated and Contention 8 Access |
| Capacity: | 152 total slots |
| Assigned Net: | Net 1 for F15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1), F3(1)/4, B1(1), B2(1), F-117(1), B52(1). Net 0 for all others. |
| Relay: | RJ(1)/2, JSTARS(1), JSTARS(2), E3(1)/2, ABCCC(1)/2, E2C, Ship(1)/3. |
| Packing Limit: | P2SP, P2DP and STD |

NPG #7 (Surveillance)

| | |
|---------------|--|
| Participants: | RJ(1)/2: transmit/receive. Own surveillance is not relayed. TALON_GW: transmit/receive. Own surveillance is not relayed. JSTARS(1): transmit/receive. Own surveillance is not relayed. JSTARS(2): transmit/receive. Own surveillance is not relayed. E3(1)/2 and E3D: transmit/receive. Own surveillance is not relayed. E2C(1) and Ships(1)/3: transmit/receive (option pool) DBCC_ADSI(1): transmit/receive SJS(1)/2: transmit/receive AIC(1): transmit/receive JRE_AF(1): transmit/receive JTAOM(1): transmit/receive |
|---------------|--|

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1),
F14D(1)/4, FA18(1)/4, F3(1)/4, B1(1), B2(1), F-117(1),
B52(1), AIC(1), UK_JCABIN(1) receive only
All others: transmit/receive with relay.

Access: Dedicated and Dedicated slot with reuse.
Capacity: 416 total slots
Assigned Net: 0
Relay: RJ(1)/2, JSTARS(1), JSTARS(2), E3(1)/2, ABCCC(1)/2,
E2C(1), Ships(1)/3
Packing Limit: P2DP and P4

NPG #8 (Weapons Coordination and Mission Management)

Participants: JSTARS(1): transmit/receive not relayed.
JSTARS(2): transmit/receive not relayed.
E3(1)/2: transmit/receive not relayed.
E3D(1): transmit/receive not relayed.
E2C(1) and Ship(1)/3: transmit/receive with relay.
DBCC_ADSI(1), JRE_AF(1), JTAOM(1): transmit/receive
with relay.
All others: receive only

Access: Dedicated
Capacity: 48 total slots
Assigned Net: 0
Relay: None
Packing Limit: P2DP and P4

NPG #9 (Fighter Air Control Uplink)

Participants: Talon_GW(1): transmit/receive
JSTARS(1): transmit/receive
JSTARS(2): transmit/receive
E3(1)/2: transmit/receive
E3D(1): transmit/receive
JTAOM(1): transmit/receive
E2C(1), Ship(1)/3: transmit/receive
DBCC_ADSI(1): transmit/receive
JRE_AF: transmit/receive
JTAOM(1): transmit/receive
All others except ABCCC(1)/2 and RJ(1)/2: receive only

Access: Dedicated with slot reuse
Capacity: 32 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: P2SP

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NPG #9 (Fighter Air Control Backlink)

Participants: F15/F15E/F/J: transmit/recv
F3(1)/4: transmit/recv
F14D(1)/4 and FA18(1)/4: transmit/recv (option pool)
Talon_GW(1), JSTARS(1), JSTARS(2), E3(1)/2, E3D,
E2C(1), Ships(1)/3, AIC(1), JRE_AF(1): receive only.
Access: Dedicate w/slot reuse, Dedicated and Contention Access 9
Capacity: 224 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: STD, P2DP

NPG #10 (Electronic Warfare)

Participants: RJ(1)/2: transmit/recv without relay
E3(1)2 and E3D: transmit/recv without relay
E2C(1) and Ships(1)/3: transmit/recv with relay.
Access: Dedicated and Dedicated w/slot reuse
Capacity: 56 total slots
Assigned Net: 10
Relay: RJ(1)/2, JSTARS(1), JSTARS(2), E3(1)/2, ABCCC(1)/2,
E2C(1) and Ships(1)/3
Packing Limit: P4, P2DP

NPG #12 (Voice A – 2.4 Kbps)

Participants: F15, F15J, F14D(1)/4, FA18(1)/4, F3(1)/4: transmit/recv
RJ(1)/2: transmit/recv
E3(1)/2 and E3D: transmit/recv
E2C(1) and Ships(1)/3: transmit/recv
JRE_AF(1) and JTAOM(1): transmit/recv
Access: Contention Access 14
Capacity: 64 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: P2SP

NPG #14 (Indirect PPLI - IPPLI)

Participants: Ships(1)/3: transmit/recv
Access: Dedicated w/slot reuse
Capacity: 8 total slots
Assigned Net: 0
Relay: RJ(1)/2, JSTARS(1), JSTARS(2), E3(1)/2, ABCCC(1)/2,
E2C(1) and Ships(1)/3.
Packing Limit: P2DP

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NPG #17

| | |
|----------------|---|
| Participants: | Talon_GW(1): transmit/receive JSTARS(1): transmit/receive JSTARS(2): transmit/receive DBCC_ADSI(1): transmit/receive SJS(1)/2: transmit/receive F15E(1.1.1), B1(1), B2(1), F117(1), RJ(1)/2, E3(1)/2 and ABCCC(1)/2: receive only |
| Access: | Dedicated w/slot reuse |
| Capacity: | 32 total slots |
| Assigned Net: | 0 |
| Relay: | RJ(1)/2, JSTARS(1), JSTARS(2), E3(1)/2, ABCCC(1)/2 |
| Packing Limit: | P4 |

NPG #19 (Fighter/Fighter Advisory)

| | |
|----------------|--|
| Participants: | E2C(1): transmit/receive F14D(1)/4 and FA18(1)/4 receive only |
| Access: | Dedicated |
| Capacity: | 2 total slots |
| Assigned Net: | 1 |
| Relay: | None |
| Packing Limit: | P2DP |

NPG #19 (Fighter/Fighter Targeting)

| | |
|----------------|--|
| Participants: | F15/F15E/F/J: transmit/receive F14D(1)/4 and FA18(1)/4: transmit/receive (option pool) E2C(1) and Ship(1)/3 receive only |
| Access: | Contention Access 14 and dedicated |
| Capacity: | 224 total slots |
| Assigned Net: | 1 and 2 |
| Relay: | None |
| Packing Limit: | STD |

NPG #20 (NC2/NC2 Fighter/Fighter Targeting)

| | |
|----------------|----------------------------|
| Participants: | F15E/F15: transmit/receive |
| Access: | Contention Access 14 |
| Capacity: | 64 total slots |
| Assigned Net: | 1 |
| Relay: | None |
| Packing Limit: | P2SP |

NPG #29 (Residual Messages)

| | |
|---------------|---|
| Participants: | JSTARS(1): transmit/receive JSTARS(2): transmit/receive E3(1)/2: transmit/receive ABCCC(1): transmit/receive |
|---------------|---|

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

| | |
|-----------------------------|---|
| | SJS(1)/2: transmit/receive |
| Access: | Dedicated |
| Capacity: | 32 total slots |
| Assigned Net: | 1 |
| Relay: | None. |
| Packing Limit: | P2SP |
| | |
| NPG #30 (P-Messages) | |
| Participants: | RJ(1)/2, Talon_GW(1), JSTARS(1), JSTARS(2), E3(1)/2, E3D, ABCCC(1)/2, E2C(1): transmit/receive |
| Access: | STD |
| Capacity: | 12 total slots |
| Assigned Net: | 0 |
| Relay: | None |
| Packing Limit: | STD |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

APPENDIX A – AFBXMC04B/USMC Network 12

CONNECTIVITY MATRIX
PULSE DENSITY REPORT
ALLOCATION TABLE
COMSEC CROSS REFERENCE TABLE
TIME LINE DISPLAY
NDL FILENAME TABLE

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMC04B/USMC Network 12

| Slot Group | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------------|----------------------------------|----------------|--------------|------|------|------|------|-----|-----|-----|----|----|-----|-----|-----|----|-----|-----|------|----|----|
| NPG Number | | 3 | 30 | 5 | 6 | 6 | TY | 6 | 6 | TY | 7 | 7 | 7 | TY | 7 | TY | 7 | 7 | 7 | TY | |
| Net Number | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TSEC Variable | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MSEC Variable | | | | | | | | | | | | | | | | | | | | | |
| Access Mode | | 4 | D | D | D | D | D | | 8 | D | | D | D | D | | D | D | D | D | D | |
| Packing Limit | | | STD | P2DP | P2DP | P2SP | P2SP | | STD | STD | | P4 | P4 | P4 | | P4 | P4 | P4 | P2DP | | |
| Per Unit Slots/Frame | | 1 | 4 | 2 | 2 | 1 | | | | | 8 | 4 | 8 | 4 | | 40 | 4 | | | | |
| Total Slots/Frame | | 8 | 12 | 32 | 16 | 28 | 12 | 12 | 96 | 48 | 48 | 16 | 8 | 16 | 16 | 8 | 8 | 160 | 8 | 80 | 80 |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | | | | | | | | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 2.F15(3.1.1) | Y | 0 | T | | R | R | R | | T | | | R | R | | | | R | R | R | | |
| 3.F15F(3.1.1) | Y | 0 | T | | R | R | R | | T | | | R | | | | R | R | R | | | |
| 4.F15J(4.1.1) | Y | 0 | T | | R | R | R | | T | | | R | | | | R | R | R | | | |
| 5.F14D(1.1)/4 | Y | 0 | T | | T/R | T/R | R | | R | | | R | R | | | R | R | R | | | |
| 6.FA18(1.1)/4 | Y | 0 | T | | T/R | T/R | R | | R | | | R | R | R | | R | R | R | | | |
| 7.F3(1.1)/4 | Y | 0 | T | | R | R | R | | T | | | R | R | | | R | R | R | | | |
| 8.B1(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 9.B2(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 10.F-117(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 11.B52(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 12.RJ(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | T/R | T/R | R | Y | R | R | R | Y | |
| 13.RJ(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | T/R | T/R | R | Y | R | R | R | Y | |
| 14.Talon_GW(1) | Y | 0 | T | T/R | | R | T/R | R | | | R | R | R | R | R | | T/R | R | R | | |
| 15.JSTARS(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | T/R | Y | T/R | Y | R | R | |
| 16.JSTARS(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | T/R | Y | T/R | Y | R | R | |
| 17.E3(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 18.E3(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 19.E3D(1) | Y | 0 | T | T/R | | R | T/R | R | | | R | R | R | R | | | T/R | R | R | R | |
| 20.ABCCC(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 21.ABCCC(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 22.E2C(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | R | R | R | | | R | R | O | Y | |
| 23.SHIP(1) | Y | 0 | T | | | R | R | T/R | Y | | R | R | R | R | | | R | R | O | Y | |
| 24.SHIP(2) | Y | 0 | T | | | R | R | T/R | Y | | R | R | R | R | | | R | R | O | Y | |
| 25.SHIP(3) | Y | 0 | T | | | R | R | T/R | Y | | R | R | R | R | | | R | R | O | Y | |
| 26.DBCC_ADSI(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 27.SJS(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 28.SJS(2) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 29.AIC(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 30.JRE_AF(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 31.JTAOM(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 32.UK_JCabin(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMC04B/USMC Network 12 Cont'd

| Slot Group | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | |
|----------------------|----------------------------------|----------------|--------------|----|-----|----|-----|------|-----|------|-----|------|------|-----|------|----|------|-----|------|------|----|---|
| NPG Number | | 7 | TY | 7 | TY | 7 | TY | 8 | 8 | TY | 8 | TY | 9 | 9 | 9 | 9 | 10 | 10 | TY | 12 | 14 | |
| Net Number | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 127 | 127 | 127 | 10 | 10 | 10 | 10 | 127 | 0 | |
| TSEC Variable | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| MSEC Variable | | | | | | | | | | | | | | | | | | | | | | |
| Access Mode | | R | | D | | D | | D | D | | D | | R | D | 9 | D | D | D | | D | R | |
| Packing Limit | | P4 | | P4 | | P4 | | P2DP | | P2DP | | P2SP | P2SP | STD | P2DP | P4 | P2DP | | P2SP | P2DP | | |
| Per Unit Slots/Frame | | | | 4 | | 24 | | 4 | 4 | | 4 | | | | | | 8 | 4 | | | | |
| Total Slots/Frame | | 64 | 64 | 8 | 8 | 48 | 48 | 20 | 12 | 12 | 16 | 16 | 16 | 16 | 128 | 64 | 40 | 16 | 16 | 64 | 8 | |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | | | | | | | | | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | | R | | |
| 2.F15(3.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | T | R | | T | R | | |
| 3.F15F(3.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | | R | | |
| 4.F15J(4.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | T | R | | T | R | | |
| 5.F14D(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | O | | | T | R | | |
| 6.FA18(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | O | | | T | R | | |
| 7.F3(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | T | R | | T | R | | |
| 8.B1(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | R | | |
| 9.B2(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | R | | |
| 10.F-117(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | R | | |
| 11.B52(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | R | | |
| 12.RJ(1) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | T/R | R | Y | T | R | |
| 13.RJ(2) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | T/R | R | Y | T | R | |
| 14.Talon_GW(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | R | | | R | | |
| 15.JSTARS(1) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | R | Y | R | | |
| 16.JSTARS(2) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | R | Y | R | | |
| 17.E3(1) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | T/R | R | Y | T | R |
| 18.E3(2) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | T/R | R | Y | T | R |
| 19.E3D(1) | Y | 0 | R | R | R | R | R | R | T/R | R | R | R | R | T | | R | R | T/R | R | R | T | R |
| 20.ABCCC(1) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | | R | Y | | R |
| 21.ABCCC(2) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | | R | Y | | R |
| 22.E2C(1) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | R |
| 23.SHIP(1) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | T |
| 24.SHIP(2) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | T |
| 25.SHIP(3) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | T |
| 26.DBCC_ADSI(1) | Y | 0 | T | | R | R | R | | R | R | T/R | R | R | T | | R | R | R | R | R | | R |
| 27.SJS(1) | Y | 0 | R | R | T/R | R | R | R | R | R | R | R | R | R | | | | | | | | R |
| 28.SJS(2) | Y | 0 | R | R | T/R | R | R | R | R | R | R | R | R | R | | | | | | | | R |
| 29.AIC(1) | Y | 0 | T | R | R | R | R | R | R | R | R | | | | | | | | | | | R |
| 30.JRE_AF(1) | Y | 0 | R | R | R | R | T/R | R | R | T/R | R | R | R | T | | R | R | | | T | R | |
| 31.JTAOM(1) | Y | 0 | R | R | R | R | T/R | R | R | T/R | R | R | R | T | | R | R | | | T | R | |
| 32.UK_JCabin(1) | Y | 0 | R | R | R | R | R | R | R | R | R | R | R | R | | | | | | | | R |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMC04B/USMC Network 12 Cont'd

| Slot Group | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
|----------------------|----------------------------------|----------------|--------------|------|------|------|-----|----|----|
| NPG Number | TY | 19 | 19 | 19 | 19 | 20 | 29 | 17 | TY |
| Net Number | 0 | 1 | 1 | 2 | 1 | 1 | 10 | 5 | 5 |
| TSEC Variable | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| MSEC Variable | | | | | | | | | |
| Access Mode | | D | 14 | D | D | 14 | D | R | |
| Packing Limit | | P2DP | P2SP | P2DP | P2DP | P2SP | P4 | P4 | |
| Per Unit Slots/Frame | | | | | | | | 4 | |
| Total Slots/Frame | 8 | 2 | 160 | 64 | 96 | 64 | 36 | 32 | 32 |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | | | T | | T | R | R |
| 2.F15(3.1.1) | Y | 0 | | | T | | T | | |
| 3.F15F(3.1.1) | Y | 0 | | | T | | T | | |
| 4.F15J(4.1.1) | Y | 0 | | | T | | T | | |
| 5.F14D(1.1)/4 | Y | 0 | | R | | O | R | | |
| 6.FA18(1.1)/4 | Y | 0 | | R | | O | R | | |
| 7.F3(1.1)/4 | Y | 0 | | | R | | | | |
| 8.B1(1) | Y | 0 | | | | | | R | R |
| 9.B2(1) | Y | 0 | | | | | | R | R |
| 10.F-117(1) | Y | 0 | | | | | | R | R |
| 11.B52(1) | Y | 0 | | | | | | R | R |
| 12.RJ(1) | Y | 0 | Y | | | | | R | Y |
| 13.RJ(2) | Y | 0 | Y | | | | | R | Y |
| 14.Talon_GW(1) | Y | 0 | R | | | | R | T | |
| 15.JSTARS(1) | Y | 0 | Y | | | | T/R | T | Y |
| 16.JSTARS(2) | Y | 0 | Y | | | | T/R | T | Y |
| 17.E3(1) | Y | 0 | Y | | | | T/R | R | Y |
| 18.E3(2) | Y | 0 | Y | | | | T/R | R | Y |
| 19.E3D(1) | Y | 0 | R | | | | | | |
| 20.ABCCC(1) | Y | 0 | Y | | | | T/R | R | Y |
| 21.ABCCC(2) | Y | 0 | Y | | | | T/R | R | Y |
| 22.E2C(1) | Y | 0 | Y | T | | R | | | |
| 23.SHIP(1) | Y | 0 | Y | | | R | | | |
| 24.SHIP(2) | Y | 0 | Y | | | R | | | |
| 25.SHIP(3) | Y | 0 | Y | | | R | | | |
| 26.DBCC_ADSI(1) | Y | 0 | R | | | | | T | |
| 27.SJS(1) | Y | 0 | R | | | | T/R | T | |
| 28.SJS(2) | Y | 0 | R | | | | T/R | T | |
| 29.AIC(1) | Y | 0 | R | | | | | | |
| 30.JRE_AF(1) | Y | 0 | R | | | | | | |
| 31.JTAOM(1) | Y | 0 | R | | | | | | |
| 32.UK_JCabin(1) | Y | 0 | R | | | | | | |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Pulse Density Report – AFBXMC04B/USMC Network 12

| Check for Active Platform | Participant | Data Without Relay | Data With Relay |
|---------------------------|--------------|--------------------|-----------------|
| | F15E(1.1.1) | 30.35% | 32.43% |
| | F15(3.1) | 30.35% | 32.43% |
| | F15F(3.1.1) | 30.35% | 32.43% |
| | F15J(4.1.1) | 30.35% | 32.43% |
| | F14D(1.1) | 3.64% | 5.73% |
| | F14D(1.2) | 3.64% | 5.73% |
| | F14D(1.3) | 3.64% | 5.73% |
| | F14D(1.4) | 2.60% | 2.60% |
| | FA18(1.1) | 2.60% | 2.60% |
| | FA18(1.2) | 2.60% | 4.69% |
| | FA18(1.3) | 2.60% | 4.69% |
| | FA18(1.4) | 2.60% | 4.69% |
| | F3(1.1) | 14.72% | 14.72% |
| | F3(1.2) | 14.72% | 14.72% |
| | F3(1.3) | 14.72% | 14.72% |
| | F3(1.4) | 14.72% | 14.72% |
| | B1(1) | 6.39% | 6.39% |
| | B2(1) | 6.39% | 6.39% |
| | F117(1) | 6.39% | 6.39% |
| | B52(1) | 6.39% | 6.39% |
| | RJ(1) | 2.57% | 40.99% |
| | RJ(2) | 2.57% | 40.99% |
| | Talon_GW(1) | 9.44% | 13.35% |
| | JSTARS(1) | 7.20% | 45.60% |
| | JSTARS(2) | 7.20% | 45.60% |
| | E3(1) | 7.65% | 46.05% |
| | E3(2) | 7.65% | 46.05% |
| | E3D(1) | 7.20% | 14.22% |
| | ABCCC(1) | 1.23% | 36.51% |
| | ABCCC(2) | 1.23% | 36.51% |
| | E2C(1) | 3.39% | 17.62% |
| | SHIP(1) | 3.93% | 18.16% |
| | SHIP(2) | 3.93% | 18.16% |
| | SHIP(3) | 3.93% | 18.16% |
| | DBCC_ADSI(1) | 11.41% | 13.20% |
| | SJS(1) | 4.68% | 4.68% |
| | SJS(2) | 4.68% | 4.68% |
| | AIC(1) | 7.37% | 7.37% |
| | JRE_AF(1) | 4.38% | 4.38% |
| | JTAOM(1) | 4.38% | 4.38% |
| | UK_Jcabin(1) | 0.20% | 0.20% |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Pulse Density Report – AFBXMC04B/USMC Network 12 Cont'd

| If the Frequency Assignment authorizes TADIL-J Voice, add the below percentage to the above platform transmitting TADIL-J Voice. | | | |
|--|--|---------------|------------|
| | | Voice % | Voice % |
| | | Without Relay | With relay |

| 2.4 Kbps | Voice A | 0.0% | 4.17% |
|----------|---------|------|-------|
| | Voice B | N/A | N/A |

Example of TSDF calculation:

$$\begin{aligned} E3(1): & \text{ (Data with Relay} = 46.05\%) + (\text{Voice 'A' with Relay} = 4.17\%) \\ & \text{Total Data/Voice with Relay} = 50.22\% \end{aligned}$$

In the above example you would enter the result into the Deconfliction Server. Other platform results may vary if Voice or Relay is used.

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Allocation Table – AFBXMC04B/USMC Network 12

| SB / Agg | Net Req. | Net | Set | Idx | RRN |
|----------|----------|-----|-----|-----|-----|
| 1.1 | 0 | 0 | B | 50 | 9 |
| 2.1 | | 0 | C | 22 | 9 |
| 2.2 | | 0 | C | 54 | 8 |
| 3.1 | | 1 | A | 6 | 11 |
| 4.1 | 0 | 0 | C | 14 | 10 |
| 5.1 | 0 | 0 | C | 27 | 10 |
| 5.2 | 0 | 0 | C | 62 | 9 |
| 5.3 | 0 | 0 | C | 90 | 8 |
| 6.1 | 0 | 0 | A | 19 | 9 |
| 6.2 | 0 | 0 | A | 99 | 8 |
| 7.1 | | 0 | A | 27 | 9 |
| 7.2 | | 0 | A | 107 | 8 |
| 8.1 | | 1 | B | 1 | 12 |
| 8.2 | | 1 | B | 5 | 11 |
| 9.1 | | 1 | B | 1 | 10 |
| 9.2 | | 1 | B | 9 | 10 |
| 9.3 | | 1 | B | 21 | 10 |
| 10.1 | | 0 | B | 5 | 10 |
| 10.2 | | 0 | B | 17 | 10 |
| 10.3 | | 0 | B | 25 | 10 |
| 11.1 | 0 | 0 | C | 6 | 10 |
| 12.1 | 0 | 0 | C | 11 | 9 |
| 13.1 | 0 | 0 | B | 10 | 10 |
| 14.1 | | 0 | B | 13 | 10 |
| 15.1 | 0 | 0 | B | 26 | 9 |
| 16.1 | | 0 | B | 29 | 9 |
| 17.1 | 0 | 0 | C | 1 | 11 |
| 17.2 | 0 | 0 | C | 9 | 11 |
| 17.3 | 0 | 0 | C | 5 | 11 |
| 17.4 | 0 | 0 | C | 13 | 11 |
| 17.5 | 0 | 0 | C | 3 | 9 |
| 17.6 | 0 | 0 | C | 35 | 9 |
| 17.7 | 0 | 0 | C | 19 | 9 |
| 17.8 | 0 | 0 | C | 51 | 9 |
| 18.1 | 0 | 0 | B | 55 | 9 |
| 19.1 | 0 | 0 | A | 0 | 12 |
| 19.2 | 0 | 0 | A | 4 | 10 |
| 20.1 | | 0 | A | 2 | 12 |
| 20.2 | | 0 | A | 6 | 10 |
| 21.1 | 0 | 0 | A | 1 | 12 |
| 22.1 | | 0 | A | 5 | 12 |
| 23.1 | 0 | 0 | B | 18 | 9 |
| 24.1 | | 0 | B | 23 | 9 |
| 25.1 | 0 | 0 | A | 12 | 10 |
| 25.2 | 0 | 0 | A | 28 | 10 |
| 25.3 | 0 | 0 | A | 20 | 9 |
| 25.4 | 0 | 0 | A | 52 | 9 |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Allocation Table – AFBXMC04B/USMC Network 12 Cont'd

| SB / Agg | Net Req. | Net | Set | Idx | RRN |
|----------|----------|-----|-----|-----|-----|
| 26.1 | | 0 | A | 14 | 10 |
| 26.2 | | 0 | A | 30 | 10 |
| 26.3 | | 0 | A | 22 | 9 |
| 26.4 | | 0 | A | 54 | 9 |
| 27.1 | 0 | 0 | C | 10 | 10 |
| 27.2 | 0 | 0 | C | 26 | 8 |
| 28.1 | 0 | 0 | A | 3 | 9 |
| 28.2 | 0 | 0 | A | 35 | 8 |
| 29.1 | 0 | 0 | A | 11 | 9 |
| 29.2 | 0 | 0 | A | 43 | 8 |
| 30.1 | 0 | 0 | B | 2 | 10 |
| 31.1 | 0 | 0 | B | 7 | 10 |
| 32.1 | 127 | 127 | B | 15 | 10 |
| 33.1 | 127 | 127 | B | 31 | 10 |
| 34.1 | 127 | 127 | B | 0 | 13 |
| 35.1 | 127 | 127 | B | 6 | 12 |
| 36.1 | | 10 | B | 19 | 10 |
| 36.2 | | 10 | B | 27 | 10 |
| 36.3 | | 0 | C | 58 | 9 |
| 37.1 | | 10 | B | 3 | 10 |
| 38.1 | | 10 | B | 11 | 10 |
| 39.1 | 127 | 127 | C | 7 | 12 |
| 40.1 | 0 | 0 | A | 51 | 9 |
| 41.1 | | 0 | A | 59 | 9 |
| 42.1 | | 1 | A | 254 | 7 |
| 43.1 | | 1 | C | 0 | 12 |
| 43.2 | | 1 | C | 4 | 12 |
| 43.3 | | 1 | C | 2 | 11 |
| 44.1 | | 2 | C | 0 | 12 |
| 45.1 | | 1 | C | 4 | 12 |
| 45.2 | | 1 | C | 2 | 11 |
| 46.1 | | 1 | B | 3 | 12 |
| 47.1 | | 10 | C | 4 | 11 |
| 47.2 | | 10 | C | 12 | 8 |
| 48.1 | | 5 | A | 7 | 11 |
| 49.1 | | 5 | A | 15 | 11 |

AFBXMC04B/USMC Network 12
 MARINE CORPS NETWORK DESIGN FACILITY
 NETWORK DESCRIPTION

COMSEC Cross Reference Table – AFBXMC04B/USMC Network 12

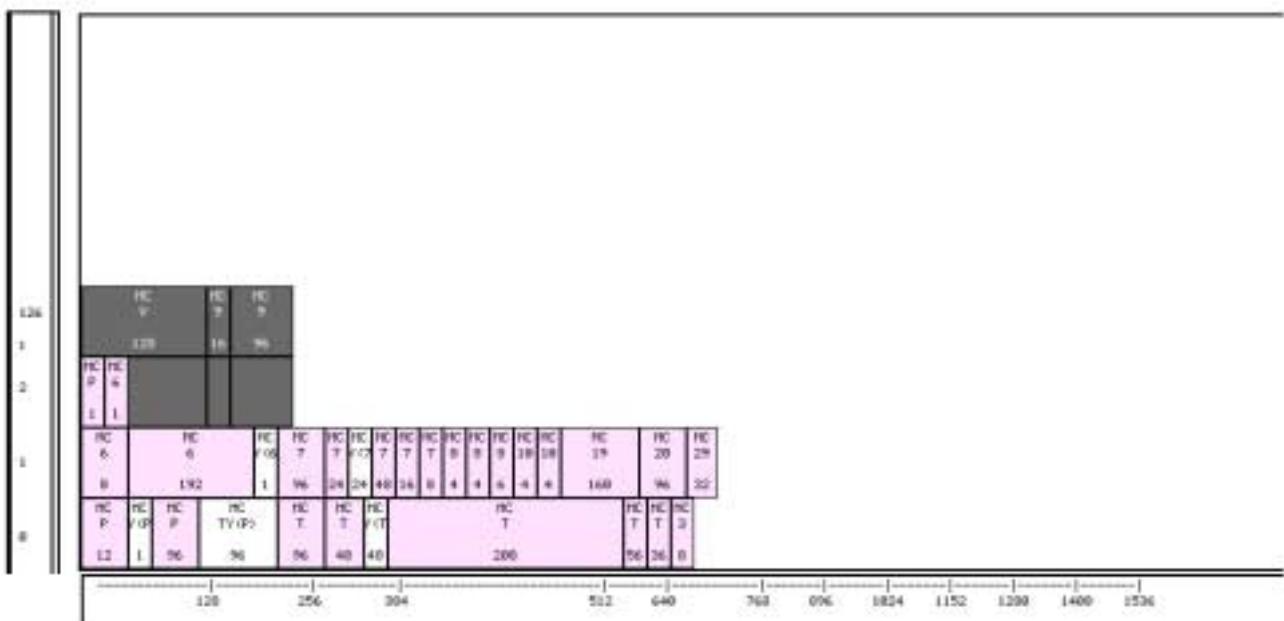
| Default MSEC = 0 | | Default TSEC = 1 | | | |
|------------------|-----|------------------|-----|-----|----------|
| SDU Locations | | | | | |
| Participant | 0/1 | 2/3 | 4/5 | 6/7 | Overflow |
| F15E(1.1.1) | 1 | 2 | | | |
| F15(3.1.1) | 1 | 2 | | | |
| F15F(3.1.1) | 1 | 2 | | | |
| F15J(4.1.1) | 1 | 2 | | | |
| F14D(1.1)/4 | 1 | | | | |
| FA18(1.1)/4 | 1 | | | | |
| F3(1.1)/4 | 1 | | | | |
| B1(1) | 1 | | | | |
| B2(1) | 1 | | | | |
| F-117(1) | 1 | | | | |
| B52(1) | 1 | | | | |
| RJ(1) | 1 | | | | |
| RJ(2) | 1 | | | | |
| Talon_GW(1) | 1 | | | | |
| JSTARS(1) | 1 | | | | |
| JSTARS(2) | 1 | | | | |
| E3(1) | 1 | | | | |
| E3(2) | 1 | | | | |
| E3D(1) | 1 | | | | |
| ABCCC(1) | 1 | | | | |
| ABCCC(2) | 1 | | | | |
| E2C(1) | 1 | | | | |
| SHIP(1) | 1 | | | | |
| SHIP(2) | 1 | | | | |
| SHIP(3) | 1 | | | | |
| DBCC_ADSI(1) | 1 | | | | |
| SJS(1) | 1 | | | | |
| SJS(2) | 1 | | | | |
| AIC(1) | 1 | | | | |
| JRE_AF(1) | 1 | | | | |
| JTAOM(1) | 1 | | | | |
| UK_JCabin(1) | 1 | | | | |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Time Line – AFBXMC04B/USMC Network 12

Time Line Display Status: CREATED

Nets



Total Slots/Frame

Note: Not to scale

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NDL File Name Table

Platforms referenced in the below table correspond with specific NDL file names or Network file identification numbers for each respective participant platform.

| Network Platform Name By Service | | File Name/Network Used By Host System |
|---|----------|--|
| Marine Corps | | |
| JTAOM | JTAOM(1) | TAOM1_12.PF |
| | | |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

APPENDIX B – AFBXMC04B/USMC Network 12

SHORT FORM REPORT FOR JTAOM (1)

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Participant JTAOM (1)

| Participant | Block Id. No. | Slot Type | Msg Cat | Total Slots Req'd | Slot Blocks Req'd | Slot Group A=Agg | Slot Group Elemt. | Set | Index | RRN | Net | Relay Delay |
|-------------|---------------|-----------|---------|-------------------|-------------------|------------------|-------------------|-----|-------|-----|-----|-------------|
| JTAOM(1) | 1 | T | 3 | 8 | 8 | 1.1 | 0 | B | 50 | 9 | 0 | 0 |
| | 2 | T | 6 | 1 | 1 | 6.2 | 9 | A | 99 | 6 | 0 | 0 |
| | 3 | T | 7 | 24 | 16 | 25.2 | 2 | A | 28 | 10 | 0 | 0 |
| | 4 | T | 7 | | 8 | 25.4 | 2 | A | 52 | 9 | 0 | 0 |
| | 5 | T | 8 | 4 | 4 | 28.2 | 3 | A | 35 | 8 | 0 | 0 |
| | 6 | T | 9 | 16 | 16 | 32.1 | 0 | B | 15 | 10 | 127 | 0 |
| | 7 | R | 6 | 16 | 16 | 4.1 | 0 | C | 14 | 10 | 0 | 0 |
| | 8 | R | 6 | 28 | 16 | 5.1 | 0 | C | 27 | 10 | 0 | 0 |
| | 9 | R | 6 | | 8 | 5.2 | 0 | C | 62 | 9 | 0 | 0 |
| | 10 | R | 6 | | 4 | 5.3 | 0 | C | 90 | 8 | 0 | 0 |
| | 11 | R | 6 | 12 | 8 | 6.1 | 0 | A | 19 | 9 | 0 | 0 |
| | 12 | R | 6 | | 4 | 6.2 | 0 | A | 99 | 8 | 0 | 0 |
| | 13 | R | 6 | 48 | 16 | 9.1 | 0 | B | 1 | 10 | 1 | 0 |
| | 14 | R | 6 | | 16 | 9.2 | 0 | B | 9 | 10 | 1 | 0 |
| | 15 | R | 6 | | 16 | 9.3 | 0 | B | 21 | 10 | 1 | 0 |
| | 16 | R | 6 | 48 | 16 | 10.1 | 0 | B | 5 | 10 | 0 | 0 |
| | 17 | R | 6 | | 16 | 10.2 | 0 | B | 17 | 10 | 0 | 0 |
| | 18 | R | 6 | | 16 | 10.3 | 0 | B | 25 | 10 | 0 | 0 |
| | 19 | R | 7 | 16 | 16 | 11.1 | 0 | C | 6 | 10 | 0 | 0 |
| | 20 | R | 7 | 8 | 8 | 12.1 | 0 | C | 11 | 9 | 0 | 0 |
| | 21 | R | 7 | 16 | 16 | 13.1 | 0 | B | 10 | 10 | 0 | 0 |
| | 22 | R | 7 | 16 | 16 | 14.1 | 0 | B | 13 | 10 | 0 | 0 |
| | 23 | R | 7 | 8 | 8 | 15.1 | 0 | B | 26 | 9 | 0 | 0 |
| | 24 | R | 7 | 8 | 8 | 16.1 | 0 | B | 29 | 9 | 0 | 0 |
| | 25 | R | 7 | 160 | 32 | 17.1 | 0 | C | 1 | 11 | 0 | 0 |
| | 26 | R | 7 | | 32 | 17.2 | 0 | C | 9 | 11 | 0 | 0 |
| | 27 | R | 7 | | 32 | 17.3 | 0 | C | 5 | 11 | 0 | 0 |
| | 28 | R | 7 | | 32 | 17.4 | 0 | C | 13 | 11 | 0 | 0 |
| | 29 | R | 7 | | 8 | 17.5 | 0 | C | 3 | 9 | 0 | 0 |
| | 30 | R | 7 | | 8 | 17.6 | 0 | C | 35 | 9 | 0 | 0 |
| | 31 | R | 7 | | 8 | 17.7 | 0 | C | 19 | 9 | 0 | 0 |
| | 32 | R | 7 | | 8 | 17.8 | 0 | C | 51 | 9 | 0 | 0 |
| | 33 | R | 7 | 8 | 8 | 18.1 | 0 | B | 55 | 9 | 0 | 0 |
| | 34 | R | 7 | 80 | 64 | 19.1 | 0 | A | 0 | 12 | 0 | 0 |
| | 35 | R | 7 | | 16 | 19.2 | 0 | A | 4 | 10 | 0 | 0 |
| | 36 | R | 7 | 80 | 64 | 20.1 | 0 | A | 2 | 12 | 0 | 0 |
| | 37 | R | 7 | | 16 | 20.2 | 0 | A | 6 | 10 | 0 | 0 |
| | 38 | R | 7 | 64 | 64 | 21.1 | 0 | A | 1 | 12 | 0 | 0 |
| | 39 | R | 7 | 64 | 64 | 22.1 | 0 | A | 5 | 12 | 0 | 0 |

AFBXMC04B/USMC Network 12
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Participant TAOM (1) Cont'd

| Participant | Block Id. No. | Slot Type | Msg Cat | Total Slots Req'd | Slot Blocks Req'd | Slot Group A=Agg | Slot Group Elem. | Set | Index | RRN | Net | Relay Delay |
|-------------|---------------|-----------|---------|-------------------|-------------------|------------------|------------------|-----|-------|-----|-----|-------------|
| | 40 | R | 7 | 8 | 8 | 23.1 | 0 | B | 18 | 9 | 0 | 0 |
| | 41 | R | 7 | 8 | 8 | 24.1 | 0 | B | 23 | 9 | 0 | 0 |
| | 42 | R | 7 | 48 | 16 | 25.1 | 0 | A | 12 | 10 | 0 | 0 |
| | 43 | R | 7 | | 16 | 25.2 | 0 | A | 28 | 10 | 0 | 0 |
| | 44 | R | 7 | | 8 | 25.3 | 0 | A | 20 | 9 | 0 | 0 |
| | 45 | R | 7 | | 8 | 25.4 | 0 | A | 52 | 9 | 0 | 0 |
| | 46 | R | 7 | 48 | 16 | 26.1 | 0 | A | 14 | 10 | 0 | 0 |
| | 47 | R | 7 | | 16 | 26.2 | 0 | A | 30 | 10 | 0 | 0 |
| | 48 | R | 7 | | 8 | 26.3 | 0 | A | 22 | 9 | 0 | 0 |
| | 49 | R | 7 | | 8 | 26.4 | 0 | A | 54 | 9 | 0 | 0 |
| | 50 | R | 8 | 20 | 16 | 27.1 | 0 | C | 10 | 10 | 0 | 0 |
| | 51 | R | 8 | | 4 | 27.2 | 0 | C | 26 | 8 | 0 | 0 |
| | 52 | R | 8 | 12 | 8 | 28.1 | 0 | A | 3 | 9 | 0 | 24 |
| | 53 | R | 8 | | 4 | 28.2 | 0 | A | 35 | 8 | 0 | 24 |
| | 54 | R | 8 | 16 | 16 | 30.1 | 0 | B | 2 | 10 | 0 | 15 |
| | 55 | R | 9 | 128 | 128 | 34.1 | 0 | B | 0 | 13 | 127 | 0 |
| | 56 | R | 9 | 64 | 64 | 35.1 | 0 | B | 6 | 12 | 127 | 0 |
| | 57 | R | 14 | 8 | 8 | 40.1 | 0 | A | 51 | 9 | 0 | 0 |
| | 58 | R | 14 | 8 | 8 | 41.1 | 0 | A | 59 | 9 | 0 | 0 |

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Section 5

Network AFBXMD04B

USMC Network 13 – ADCP(1)

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

| 5.0 Executive Summary – AFBXMD04B/USMC Network 13 | | | | | | | | | |
|--|---|---|--|---|--|--|--|--|--|
| Network: | AFBXMD04B USMC Networks 10, 11, 12 and 13 | Created for: | USMC Network variants created for ADCP and JTAOM participation in AF Network AFBXMD04B | | | | | | |
| Use Limitations: | | IPF OVERRIDE = 100/50 | | | | | | | |
| Participants: | USMC Platforms | USN Platforms | USA Platforms | USAF Platforms | Other Platforms | | | | |
| USMC Network 13 | 1 - JTAOM | 3 - SHIP 1 - E2C 4 - F14D 4 - FA18 | NONE | 1 - F15E 2 - JSTARS 1 - F15 2 - E3 1 - F15F 1 - E3D 1 - F15J 2 - ABCCC 1 - B1 2 - SJS 1 - B2 1 - AIC 1 - F-117 1 - JRE_AF 1 - B52 2 - RJ | 4 - F3 1 - TALON_GW 1 - DBCC_ADSI 1 - UK_JCABIN | | | | |
| Operational Summary: | | 1. Highest Platform TSDF = 46.05 | | | | | | | |
| Network Requested by: | MACS-2 ATTN: 1stLt Smith | | | | | | | | |
| Send comments and Recommendations to: | USMC Network Design Facility Attn: AD-09 (MCNDF) Box 555171 Camp Pendleton, CA 92055-5171 E-mail: mcndf@mctssa.usmc.mil Website: http://www.mctssa.usmc.mil Telephone: DSN 365-2796/2133 COMM (760) 725-2796/2133 | | | | | | | | |

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

5.1 USMC Network 13 Functional Description – ADCP(1)

USMC Network 13 was developed as a variant of Air Force Network AFBXMD04B by the Marine Corps Network Design Facility to support joint ground and air training operations for USMC platforms. Network 13 variant allows ADCP(1) to use CRC(1) time slots as a participant in the network. The network participants are: F15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1), F14D(1)/4, FA18(1)/4, F3(1)/4, B1(1), B2(1), F117(1), B52(1), RJ(1)/2, TALON_GW(1), JSTARS(1)/2, E3(1)/2 E3D(1), ABCCC(1)/2, E2C(1), SHIP(1)/3, DBCC_ADSI(1), SJS(1), SJS(2), AIC(1), JRE_AF(1), ADCP(1), UK_JCABIN(1).

NOTES:

10. Network **IPF Override** is set to **1**, **TSDF** is set to **100/50**, **Communications Mode** is set to **Mode 1**, **TDMA Range** is **300 nmi**, **TSEC** set to **1** and **MSEC** is set to **0**.
11. **JICO oversees all responsibility in managing network TSDF, NTR, and Relay assignments.**
12. **ADCP(1) cannot be in the network if CRC(1) is a participant.**

5.2 Operational Summary

1. 100/50

All participants do not have line of sight with every other participant.

5.3 Use Limitations

1. 100/50 IPF

5.4 Participants

| USMC Platforms | USN Platforms | USA Platforms | USAF Platforms | Other |
|----------------|---------------|---------------|----------------|----------|
| 1 JTAOM | 3 SHIP | NONE | 1 F15E | 1 F15J |
| | 1 E2C | | 1 F15 | 1 B1 |
| | 4 – F14D | | 1 F15F | 1 B2 |
| | 4 – FA18 | | 1 F-117 | 1 B52 |
| | | | 2 RJ | 2 JSTARS |
| | | | 2 E3 | 1 E3D |
| | | | 2 ABCCC | 2 SJS |
| | | | 1 AIC | 1 JRE_AF |

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

5.5 Network Participation Groups

NPG #3 (RTT-B)

| | |
|----------------|----------------------------|
| Participants: | All units transmit/receive |
| Access: | Contention access 4 |
| Capacity: | 8 total contention |
| Assigned Net: | 0 |
| Relay: | None |
| Packing Limit: | RTT |

NPG #5 (PPLI-A)

| | |
|----------------|--|
| Participants: | F14D(1)/4 and FA18(1)/4 transmit/receive All other NonC2 airborne platforms receive only. |
| Access: | Dedicated |
| Capacity: | 32 total slots |
| Assigned Net: | 1 |
| Relay: | No |
| Packing Limit: | P2DP |

NPG #6 (PPLI-B)

| | |
|----------------|---|
| Participants: | All units transmit/receive |
| Access: | Dedicated and Contention 8 Access |
| Capacity: | 152 total slots |
| Assigned Net: | Net 1 for F15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1), F3(1)/4, B1(1), B2(1), F-117(1), B52(1). Net 0 for all others. |
| Relay: | RJ(1)/2, JSTARS(1), JSTARS(2), E3(1)/2, ABCCC(1)/2, E2C, Ship(1)/3. |
| Packing Limit: | P2SP, P2DP and STD |

NPG #7 (Surveillance)

| | |
|---------------|---|
| Participants: | RJ(1)/2: transmit/receive. Own surveillance is not relayed. TALON_GW: transmit/receive. Own surveillance is not relayed. JSTARS(1): transmit/receive. Own surveillance is not relayed. JSTARS(2): transmit/receive. Own surveillance is not relayed. E3(1)/2 and E3D: transmit/receive. Own surveillance is not relayed. E2C(1) and Ships(1)/3: transmit/receive (option pool) DBCC_ADSI(1): transmit/receive SJS(1)/2: transmit/receive AIC(1): transmit/receive JRE_AF(1): transmit/receive ADCP(1): transmit/receive |
|---------------|---|

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

15E(1.1.1), F15(3.1.1), F15F(4.1.1), F15J(4.2.1),
F14D(1)/4, FA18(1)/4, F3(1)/4, B1(1), B2(1), F-117(1),
B52(1), AIC(1), UK_JCABIN(1) receive only
All others: transmit/receive with relay.

Access: Dedicated and Dedicated slot with reuse.
Capacity: 416 total slots
Assigned Net: 0
Relay: RJ(1)/2, JSTARS(1), JSTARS(2), E3(1)/2, ABCCC(1)/2,
E2C(1), Ships(1)/3
Packing Limit: P2DP and P4

NPG #8 (Weapons Coordination and Mission Management)

Participants: JSTARS(1): transmit/receive not relayed.
JSTARS(2): transmit/receive not relayed.
E3(1)/2: transmit/receive not relayed.
E3D(1): transmit/receive not relayed.
E2C(1) and Ship(1)/3: transmit/receive with relay.
DBCC_ADSI(1), JRE_AF(1), ADCP(1): transmit/receive
with relay.
All others: receive only

Access: Dedicated
Capacity: 48 total slots
Assigned Net: 0
Relay: None
Packing Limit: P2DP and P4

NPG #9 (Fighter Air Control Uplink)

Participants: Talon_GW(1): transmit/receive
JSTARS(1): transmit/receive
JSTARS(2): transmit/receive
E3(1)/2: transmit/receive
E3D(1): transmit/receive
ADCP(1): transmit/receive
E2C(1), Ship(1)/3: transmit/receive
DBCC_ADSI(1): transmit/receive
JRE_AF: transmit/receive
ADCP(1): transmit/receive
All others except ABCCC(1)/2 and RJ(1)/2: receive only

Access: Dedicated with slot reuse
Capacity: 32 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: P2SP

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NPG #9 (Fighter Air Control Backlink)

Participants: F15/F15E/F/J: transmit/recv
F3(1)/4: transmit/recv
F14D(1)/4 and FA18(1)/4: transmit/recv (option pool)
Talon_GW(1), JSTARS(1), JSTARS(2), E3(1)/2, E3D,
E2C(1), Ships(1)/3, AIC(1), JRE_AF(1): receive only.
Access: Dedicate w/slot reuse, Dedicated and Contention Access 9
Capacity: 224 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: STD, P2DP

NPG #10 (Electronic Warfare)

Participants: RJ(1)/2: transmit/recv without relay
E3(1)2 and E3D: transmit/recv without relay
E2C(1) and Ships(1)/3: transmit/recv with relay.
Access: Dedicated and Dedicated w/slot reuse
Capacity: 56 total slots
Assigned Net: 10
Relay: RJ(1)/2, JSTARS(1), JSTARS(2), E3(1)/2, ABCCC(1)/2,
E2C(1) and Ships(1)/3
Packing Limit: P4, P2DP

NPG #12 (Voice A – 2.4 Kbps)

Participants: F15, F15J, F14D(1)/4, FA18(1)/4, F3(1)/4: transmit/recv
RJ(1)/2: transmit/recv
E3(1)/2 and E3D: transmit/recv
E2C(1) and Ships(1)/3: transmit/recv
JRE_AF(1) and ADCP(1): transmit/recv
Access: Contention Access 14
Capacity: 64 total slots
Assigned Net: 127 (stacked)
Relay: None
Packing Limit: P2SP

NPG #14 (Indirect PPLI - IPPLI)

Participants: Ships(1)/3: transmit/recv
Access: Dedicated w/slot reuse
Capacity: 8 total slots
Assigned Net: 0
Relay: RJ(1)/2, JSTARS(1), JSTARS(2), E3(1)/2, ABCCC(1)/2,
E2C(1) and Ships(1)/3.
Packing Limit: P2DP

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NPG #17

| | |
|----------------|---|
| Participants: | Talon_GW(1): transmit/receive JSTARS(1): transmit/receive JSTARS(2): transmit/receive DBCC_ADSI(1): transmit/receive SJS(1)/2: transmit/receive F15E(1.1.1), B1(1), B2(1), F117(1), RJ(1)/2, E3(1)/2 and ABCCC(1)/2: receive only |
| Access: | Dedicated w/slot reuse |
| Capacity: | 32 total slots |
| Assigned Net: | 0 |
| Relay: | RJ(1)/2, JSTARS(1), JSTARS(2), E3(1)/2, ABCCC(1)/2 |
| Packing Limit: | P4 |

NPG #19 (Fighter/Fighter Advisory)

| | |
|----------------|--|
| Participants: | E2C(1): transmit/receive F14D(1)/4 and FA18(1)/4 receive only |
| Access: | Dedicated |
| Capacity: | 2 total slots |
| Assigned Net: | 1 |
| Relay: | None |
| Packing Limit: | P2DP |

NPG #19 (Fighter/Fighter Targeting)

| | |
|----------------|--|
| Participants: | F15/F15E/F/J: transmit/receive F14D(1)/4 and FA18(1)/4: transmit/receive (option pool) E2C(1) and Ship(1)/3 receive only |
| Access: | Contention Access 14 and dedicated |
| Capacity: | 224 total slots |
| Assigned Net: | 1 and 2 |
| Relay: | None |
| Packing Limit: | STD |

NPG #20 (NC2/NC2 Fighter/Fighter Targeting)

| | |
|----------------|----------------------------|
| Participants: | F15E/F15: transmit/receive |
| Access: | Contention Access 14 |
| Capacity: | 64 total slots |
| Assigned Net: | 1 |
| Relay: | None |
| Packing Limit: | P2SP |

NPG #29 (Residual Messages)

| | |
|---------------|---|
| Participants: | JSTARS(1): transmit/receive JSTARS(2): transmit/receive E3(1)/2: transmit/receive ABCCC(1): transmit/receive |
|---------------|---|

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

| | |
|-----------------------------|---|
| | SJS(1)/2: transmit/receive |
| Access: | Dedicated |
| Capacity: | 32 total slots |
| Assigned Net: | 1 |
| Relay: | None. |
| Packing Limit: | P2SP |
| | |
| NPG #30 (P-Messages) | |
| Participants: | RJ(1)/2, Talon_GW(1), JSTARS(1), JSTARS(2), E3(1)/2, E3D, ABCCC(1)/2, E2C(1): transmit/receive |
| Access: | STD |
| Capacity: | 12 total slots |
| Assigned Net: | 0 |
| Relay: | None |
| Packing Limit: | STD |

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

APPENDIX A – AFBXMD04B/USMC Network 13

CONNECTIVITY MATRIX
PULSE DENSITY REPORT
ALLOCATION TABLE
COMSEC CROSS REFERENCE TABLE
TIME LINE DISPLAY
NDL FILENAME TABLE

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMD04B/USMC Network 13

| Slot Group | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|----------------------|----------------------------------|----------------|--------------|------|------|------|------|-----|-----|-----|----|----|-----|-----|-----|----|-----|-----|------|----|----|
| NPG Number | | 3 | 30 | 5 | 6 | 6 | TY | 6 | 6 | TY | 7 | 7 | 7 | TY | 7 | TY | 7 | 7 | 7 | TY | |
| Net Number | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TSEC Variable | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MSEC Variable | | | | | | | | | | | | | | | | | | | | | |
| Access Mode | | 4 | D | D | D | D | D | | 8 | D | | D | D | D | | D | D | D | D | D | |
| Packing Limit | | | STD | P2DP | P2DP | P2SP | P2SP | | STD | STD | | P4 | P4 | P4 | | P4 | P4 | P4 | P2DP | | |
| Per Unit Slots/Frame | | 1 | 4 | 2 | 2 | 1 | | | | | 8 | 4 | 8 | 4 | | 40 | 4 | | | | |
| Total Slots/Frame | | 8 | 12 | 32 | 16 | 28 | 12 | 12 | 96 | 48 | 48 | 16 | 8 | 16 | 16 | 8 | 8 | 160 | 8 | 80 | 80 |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | | | | | | | | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 2.F15(3.1.1) | Y | 0 | T | | R | R | R | | T | | | R | R | | | | R | R | R | | |
| 3.F15F(3.1.1) | Y | 0 | T | | R | R | R | | T | | | R | | | | R | R | R | | | |
| 4.F15J(4.1.1) | Y | 0 | T | | R | R | R | | T | | | R | | | | R | R | R | | | |
| 5.F14D(1.1)/4 | Y | 0 | T | | T/R | T/R | R | | R | | | R | R | | | R | R | R | | | |
| 6.FA18(1.1)/4 | Y | 0 | T | | T/R | T/R | R | | R | | | R | R | R | | R | R | R | | | |
| 7.F3(1.1)/4 | Y | 0 | T | | R | R | R | | T | | | R | R | | | R | R | R | | | |
| 8.B1(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 9.B2(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 10.F-117(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 11.B52(1) | Y | 0 | T | | R | R | R | | T | | | R | R | R | | R | R | R | | | |
| 12.RJ(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | T/R | T/R | R | Y | R | R | R | Y | |
| 13.RJ(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | T/R | T/R | R | Y | R | R | R | Y | |
| 14.Talon_GW(1) | Y | 0 | T | T/R | | R | T/R | R | | | R | R | R | R | R | | T/R | R | R | | |
| 15.JSTARS(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | T/R | Y | T/R | Y | R | R | |
| 16.JSTARS(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | T/R | Y | T/R | Y | R | R | |
| 17.E3(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 18.E3(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 19.E3D(1) | Y | 0 | T | T/R | | R | T/R | R | | | R | R | R | R | | | T/R | R | R | R | |
| 20.ABCCC(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 21.ABCCC(2) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | Y | R | R | R | Y | R | Y | T/R | R | |
| 22.E2C(1) | Y | 0 | T | T/R | | R | T/R | R | Y | | R | R | R | R | | | R | R | O | Y | |
| 23.SHIP(1) | Y | 0 | T | | | R | R | T/R | Y | | R | R | R | R | | | R | R | O | Y | |
| 24.SHIP(2) | Y | 0 | T | | | R | R | T/R | Y | | R | R | R | R | | | R | R | O | Y | |
| 25.SHIP(3) | Y | 0 | T | | | R | R | T/R | Y | | R | R | R | R | | | R | R | O | Y | |
| 26.DBCC_ADSI(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 27.SJS(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 28.SJS(2) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 29.AIC(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 30.JRE_AF(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 31.ADCP(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |
| 32.UK_JCabin(1) | Y | 0 | T | | | R | R | T/R | | | R | R | R | R | R | R | R | R | R | R | |

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMD04B/USMC Network 13 Cont'd

| Slot Group | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | |
|----------------------|----------------------------------|----------------|--------------|----|-----|----|-----|------|-----|------|-----|------|------|-----|------|-----|------|-----|------|------|----|---|
| NPG Number | | 7 | TY | 7 | TY | 7 | TY | 8 | 8 | TY | 8 | TY | 9 | 9 | 9 | 9 | 10 | 10 | TY | 12 | 14 | |
| Net Number | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 127 | 127 | 127 | 127 | 10 | 10 | 10 | 127 | 0 | |
| TSEC Variable | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| MSEC Variable | | | | | | | | | | | | | | | | | | | | | | |
| Access Mode | | R | | D | | D | | D | D | | D | | R | D | 9 | D | D | D | | D | R | |
| Packing Limit | | P4 | | P4 | | P4 | | P2DP | | P2DP | | P2SP | P2SP | STD | P2DP | P4 | P2DP | | P2SP | P2DP | | |
| Per Unit Slots/Frame | | | | 4 | | 24 | | 4 | 4 | | 4 | | | | | | 8 | 4 | | | | |
| Total Slots/Frame | | 64 | 64 | 8 | 8 | 48 | 48 | 20 | 12 | 12 | 16 | 16 | 16 | 16 | 128 | 64 | 40 | 16 | 16 | 64 | 8 | |
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | | | | | | | | | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | | R | | |
| 2.F15(3.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | T | R | | |
| 3.F15F(3.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | | R | | |
| 4.F15J(4.1.1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | T | R | | |
| 5.F14D(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | O | | | T | R | | |
| 6.FA18(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | R | O | | | T | R | | |
| 7.F3(1.1)/4 | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | | | T | R | | |
| 8.B1(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | R | | |
| 9.B2(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | R | | |
| 10.F-117(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | R | | |
| 11.B52(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | | | | | | R | | |
| 12.RJ(1) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | T/R | R | Y | T | R | |
| 13.RJ(2) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | T/R | R | Y | T | R | |
| 14.Talon_GW(1) | Y | 0 | R | | R | | R | | R | R | R | R | R | R | T | R | R | | | R | | |
| 15.JSTARS(1) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | R | Y | R | | |
| 16.JSTARS(2) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | R | Y | R | | |
| 17.E3(1) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | T/R | R | Y | T | R |
| 18.E3(2) | Y | 0 | R | Y | R | Y | R | Y | T/R | R | Y | R | Y | T | | R | R | T/R | R | Y | T | R |
| 19.E3D(1) | Y | 0 | R | R | R | R | R | R | T/R | R | R | R | R | T | | R | R | T/R | R | R | T | R |
| 20.ABCCC(1) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | R | Y | | R | |
| 21.ABCCC(2) | Y | 0 | R | Y | R | Y | R | Y | | R | Y | R | Y | | | | | R | Y | | R | |
| 22.E2C(1) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | R |
| 23.SHIP(1) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | T |
| 24.SHIP(2) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | T |
| 25.SHIP(3) | Y | 0 | R | R | R | R | R | | R | R | R | T/R | Y | T | | R | R | R | T/R | Y | T | T |
| 26.DBCC_ADSI(1) | Y | 0 | T | | R | R | R | | R | R | T/R | R | R | T | | R | R | R | R | R | R | |
| 27.SJS(1) | Y | 0 | R | R | T/R | R | R | R | R | R | R | R | R | R | | | | | | | R | |
| 28.SJS(2) | Y | 0 | R | R | T/R | R | R | R | R | R | R | R | R | R | | | | | | | R | |
| 29.AIC(1) | Y | 0 | T | R | R | R | R | R | R | R | R | | | R | | | | | | | R | |
| 30.JRE_AF(1) | Y | 0 | R | R | R | R | T/R | R | R | T/R | R | R | R | T | | R | R | | | T | R | |
| 31.ADCP(1) | Y | 0 | R | R | R | R | T/R | R | R | T/R | R | R | R | T | | R | R | | | T | R | |
| 32.UK_JCabin(1) | Y | 0 | R | R | R | R | R | R | R | R | R | R | R | R | | | | | | | R | |

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Connectivity Matrix – AFBXMD04B/USMC Network 13 Cont'd

| Slot Group | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
|-----------------|----------------------------------|----------------|--------------|----|----|----|-----|----|----|
| Participant ID | Net Entry Transmit Enabled | Default Net | Connectivity | | | | | | |
| 1.F15E(1.1.1) | Y | 0 | | T | | T | | R | R |
| 2.F15(3.1.1) | Y | 0 | | T | | T | | | |
| 3.F15F(3.1.1) | Y | 0 | | T | | T | | | |
| 4.F15J(4.1.1) | Y | 0 | | T | | T | | | |
| 5.F14D(1.1)/4 | Y | 0 | R | O | R | | | | |
| 6.FA18(1.1)/4 | Y | 0 | R | O | R | | | | |
| 7.F3(1.1)/4 | Y | 0 | | R | | | | | |
| 8.B1(1) | Y | 0 | | | | | | R | R |
| 9.B2(1) | Y | 0 | | | | | | R | R |
| 10.F-117(1) | Y | 0 | | | | | | R | R |
| 11.B52(1) | Y | 0 | | | | | | R | R |
| 12.RJ(1) | Y | 0 | Y | | | | | R | Y |
| 13.RJ(2) | Y | 0 | Y | | | | | R | Y |
| 14.Talon_GW(1) | Y | 0 | R | | | | R | T | |
| 15.JSTARS(1) | Y | 0 | Y | | | | T/R | T | Y |
| 16.JSTARS(2) | Y | 0 | Y | | | | T/R | T | Y |
| 17.E3(1) | Y | 0 | Y | | | | T/R | R | Y |
| 18.E3(2) | Y | 0 | Y | | | | T/R | R | Y |
| 19.E3D(1) | Y | 0 | R | | | | | | |
| 20.ABCCC(1) | Y | 0 | Y | | | | T/R | R | Y |
| 21.ABCCC(2) | Y | 0 | Y | | | | T/R | R | Y |
| 22.E2C(1) | Y | 0 | Y | T | R | | | | |
| 23.SHIP(1) | Y | 0 | Y | | R | | | | |
| 24.SHIP(2) | Y | 0 | Y | | R | | | | |
| 25.SHIP(3) | Y | 0 | Y | | R | | | | |
| 26.DBCC_ADSI(1) | Y | 0 | R | | | | | T | |
| 27.SJS(1) | Y | 0 | R | | | | T/R | T | |
| 28.SJS(2) | Y | 0 | R | | | | T/R | T | |
| 29.AIC(1) | Y | 0 | R | | | | | | |
| 30.JRE_AF(1) | Y | 0 | R | | | | | | |
| 31.ADCP(1) | Y | 0 | R | | | | | | |
| 32.UK_JCabin(1) | Y | 0 | R | | | | | | |

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Pulse Density Report – AFBXMD04B/USMC Network 13

| Check for Active Platform | Participant | Data Without Relay | Data With Relay |
|---------------------------|--------------|--------------------|-----------------|
| | F15E(1.1.1) | 30.35% | 32.43% |
| | F15(3.1) | 30.35% | 32.43% |
| | F15F(3.1.1) | 30.35% | 32.43% |
| | F15J(4.1.1) | 30.35% | 32.43% |
| | F14D(1.1) | 3.64% | 5.73% |
| | F14D(1.2) | 3.64% | 5.73% |
| | F14D(1.3) | 3.64% | 5.73% |
| | F14D(1.4) | 2.60% | 2.60% |
| | FA18(1.1) | 2.60% | 2.60% |
| | FA18(1.2) | 2.60% | 4.69% |
| | FA18(1.3) | 2.60% | 4.69% |
| | FA18(1.4) | 2.60% | 4.69% |
| | F3(1.1) | 14.72% | 14.72% |
| | F3(1.2) | 14.72% | 14.72% |
| | F3(1.3) | 14.72% | 14.72% |
| | F3(1.4) | 14.72% | 14.72% |
| | B1(1) | 6.39% | 6.39% |
| | B2(1) | 6.39% | 6.39% |
| | F117(1) | 6.39% | 6.39% |
| | B52(1) | 6.39% | 6.39% |
| | RJ(1) | 2.57% | 40.99% |
| | RJ(2) | 2.57% | 40.99% |
| | Talon_GW(1) | 9.44% | 13.35% |
| | JSTARS(1) | 7.20% | 45.60% |
| | JSTARS(2) | 7.20% | 45.60% |
| | E3(1) | 7.65% | 46.05% |
| | E3(2) | 7.65% | 46.05% |
| | E3D(1) | 7.20% | 14.22% |
| | ABCCC(1) | 1.23% | 36.51% |
| | ABCCC(2) | 1.23% | 36.51% |
| | E2C(1) | 3.39% | 17.62% |
| | SHIP(1) | 3.93% | 18.16% |
| | SHIP(2) | 3.93% | 18.16% |
| | SHIP(3) | 3.93% | 18.16% |
| | DBCC_ADSI(1) | 11.41% | 13.20% |
| | SJS(1) | 4.68% | 4.68% |
| | SJS(2) | 4.68% | 4.68% |
| | AIC(1) | 7.37% | 7.37% |
| | JRE_AF(1) | 4.38% | 4.38% |
| | ADCP(1) | 4.38% | 4.38% |
| | UK_Jcabin(1) | 0.20% | 0.20% |

AFBXMD04B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Pulse Density Report – AFBXMD04B/USMC Network 13 Cont'd

| If the Frequency Assignment authorizes TADIL-J Voice, add the below percentage to the above platform transmitting TADIL-J Voice. | | | |
|--|--|---------------|------------|
| | | Voice % | Voice % |
| | | Without Relay | With relay |

| 2.4 Kbps | Voice A | 0.0% | 4.17% |
|----------|---------|------|-------|
| | Voice B | N/A | N/A |

Example of TSDF calculation:

$$\begin{aligned} E3(1): & \text{ (Data with Relay} = 46.05\%) + (\text{Voice 'A' with Relay} = 4.17\%) \\ & \text{Total Data/Voice with Relay} = 50.22\% \end{aligned}$$

In the above example you would enter the result into the Deconfliction Server. Other platform results may vary if Voice or Relay is used.

AFBX0004B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Allocation Table – AFBXMD04B/USMC Network 13

| SB / Agg | Net Req. | Net | Set | Idx | RRN |
|----------|----------|-----|-----|-----|-----|
| 1.1 | 0 | 0 | B | 50 | 9 |
| 2.1 | | 0 | C | 22 | 9 |
| 2.2 | | 0 | C | 54 | 8 |
| 3.1 | | 1 | A | 6 | 11 |
| 4.1 | 0 | 0 | C | 14 | 10 |
| 5.1 | 0 | 0 | C | 27 | 10 |
| 5.2 | 0 | 0 | C | 62 | 9 |
| 5.3 | 0 | 0 | C | 90 | 8 |
| 6.1 | 0 | 0 | A | 19 | 9 |
| 6.2 | 0 | 0 | A | 99 | 8 |
| 7.1 | | 0 | A | 27 | 9 |
| 7.2 | | 0 | A | 107 | 8 |
| 8.1 | | 1 | B | 1 | 12 |
| 8.2 | | 1 | B | 5 | 11 |
| 9.1 | | 1 | B | 1 | 10 |
| 9.2 | | 1 | B | 9 | 10 |
| 9.3 | | 1 | B | 21 | 10 |
| 10.1 | | 0 | B | 5 | 10 |
| 10.2 | | 0 | B | 17 | 10 |
| 10.3 | | 0 | B | 25 | 10 |
| 11.1 | 0 | 0 | C | 6 | 10 |
| 12.1 | 0 | 0 | C | 11 | 9 |
| 13.1 | 0 | 0 | B | 10 | 10 |
| 14.1 | | 0 | B | 13 | 10 |
| 15.1 | 0 | 0 | B | 26 | 9 |
| 16.1 | | 0 | B | 29 | 9 |
| 17.1 | 0 | 0 | C | 1 | 11 |
| 17.2 | 0 | 0 | C | 9 | 11 |
| 17.3 | 0 | 0 | C | 5 | 11 |
| 17.4 | 0 | 0 | C | 13 | 11 |
| 17.5 | 0 | 0 | C | 3 | 9 |
| 17.6 | 0 | 0 | C | 35 | 9 |
| 17.7 | 0 | 0 | C | 19 | 9 |
| 17.8 | 0 | 0 | C | 51 | 9 |
| 18.1 | 0 | 0 | B | 55 | 9 |
| 19.1 | 0 | 0 | A | 0 | 12 |
| 19.2 | 0 | 0 | A | 4 | 10 |
| 20.1 | | 0 | A | 2 | 12 |
| 20.2 | | 0 | A | 6 | 10 |
| 21.1 | 0 | 0 | A | 1 | 12 |
| 22.1 | | 0 | A | 5 | 12 |
| 23.1 | 0 | 0 | B | 18 | 9 |
| 24.1 | | 0 | B | 23 | 9 |
| 25.1 | 0 | 0 | A | 12 | 10 |
| 25.2 | 0 | 0 | A | 28 | 10 |
| 25.3 | 0 | 0 | A | 20 | 9 |
| 25.4 | 0 | 0 | A | 52 | 9 |

AFBX0004B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Allocation Table – AFBXMD04B/USMC Network 13 Cont'd

| SB / Agg | Net Req. | Net | Set | Idx | RRN |
|----------|----------|-----|-----|-----|-----|
| 26.1 | | 0 | A | 14 | 10 |
| 26.2 | | 0 | A | 30 | 10 |
| 26.3 | | 0 | A | 22 | 9 |
| 26.4 | | 0 | A | 54 | 9 |
| 27.1 | 0 | 0 | C | 10 | 10 |
| 27.2 | 0 | 0 | C | 26 | 8 |
| 28.1 | 0 | 0 | A | 3 | 9 |
| 28.2 | 0 | 0 | A | 35 | 8 |
| 29.1 | 0 | 0 | A | 11 | 9 |
| 29.2 | 0 | 0 | A | 43 | 8 |
| 30.1 | 0 | 0 | B | 2 | 10 |
| 31.1 | 0 | 0 | B | 7 | 10 |
| 32.1 | 127 | 127 | B | 15 | 10 |
| 33.1 | 127 | 127 | B | 31 | 10 |
| 34.1 | 127 | 127 | B | 0 | 13 |
| 35.1 | 127 | 127 | B | 6 | 12 |
| 36.1 | | 10 | B | 19 | 10 |
| 36.2 | | 10 | B | 27 | 10 |
| 36.3 | | 0 | C | 58 | 9 |
| 37.1 | | 10 | B | 3 | 10 |
| 38.1 | | 10 | B | 11 | 10 |
| 39.1 | 127 | 127 | C | 7 | 12 |
| 40.1 | 0 | 0 | A | 51 | 9 |
| 41.1 | | 0 | A | 59 | 9 |
| 42.1 | | 1 | A | 254 | 7 |
| 43.1 | | 1 | C | 0 | 12 |
| 43.2 | | 1 | C | 4 | 12 |
| 43.3 | | 1 | C | 2 | 11 |
| 44.1 | | 2 | C | 0 | 12 |
| 45.1 | | 1 | C | 4 | 12 |
| 45.2 | | 1 | C | 2 | 11 |
| 46.1 | | 1 | B | 3 | 12 |
| 47.1 | | 10 | C | 4 | 11 |
| 47.2 | | 10 | C | 12 | 8 |
| 48.1 | | 5 | A | 7 | 11 |
| 49.1 | | 5 | A | 15 | 11 |

AFBX0004B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

COMSEC Cross Reference Table – AFBXMD04B/USMC Network 13

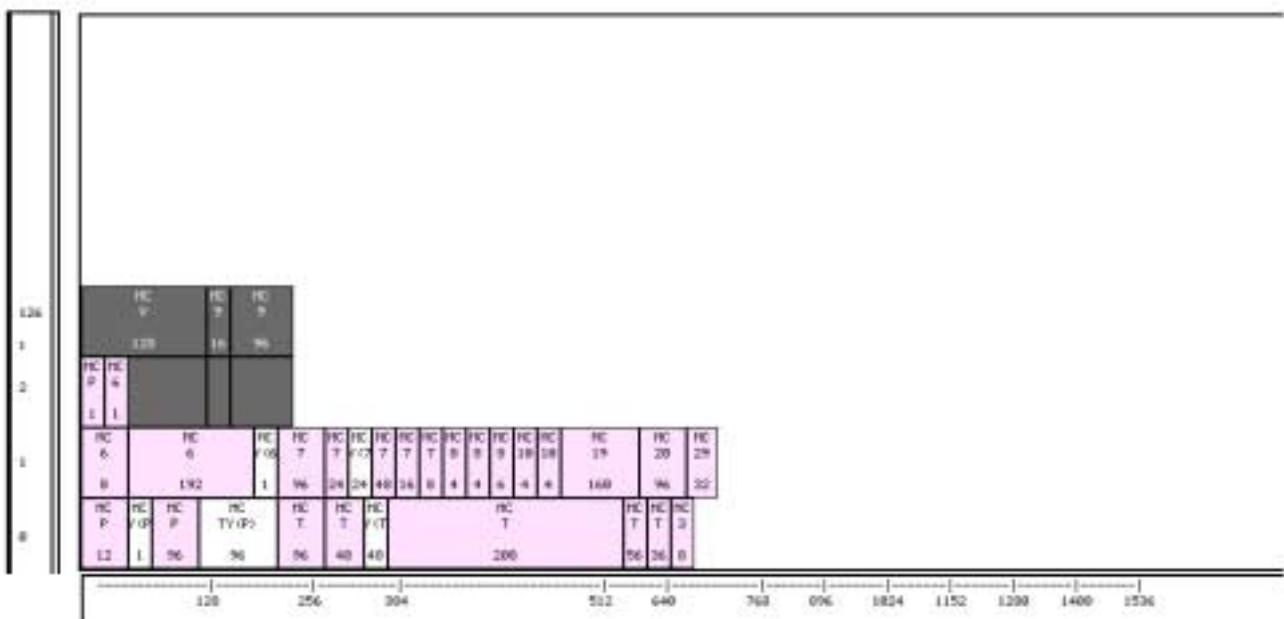
| Default MSEC = 0 | | Default TSEC = 1 | | | |
|------------------|-----|------------------|-----|-----|----------|
| SDU Locations | | | | | |
| Participant | 0/1 | 2/3 | 4/5 | 6/7 | Overflow |
| F15E(1.1.1) | 1 | 2 | | | |
| F15(3.1.1) | 1 | 2 | | | |
| F15F(3.1.1) | 1 | 2 | | | |
| F15J(4.1.1) | 1 | 2 | | | |
| F14D(1.1)/4 | 1 | | | | |
| FA18(1.1)/4 | 1 | | | | |
| F3(1.1)/4 | 1 | | | | |
| B1(1) | 1 | | | | |
| B2(1) | 1 | | | | |
| F-117(1) | 1 | | | | |
| B52(1) | 1 | | | | |
| RJ(1) | 1 | | | | |
| RJ(2) | 1 | | | | |
| Talon_GW(1) | 1 | | | | |
| JSTARS(1) | 1 | | | | |
| JSTARS(2) | 1 | | | | |
| E3(1) | 1 | | | | |
| E3(2) | 1 | | | | |
| E3D(1) | 1 | | | | |
| ABCCC(1) | 1 | | | | |
| ABCCC(2) | 1 | | | | |
| E2C(1) | 1 | | | | |
| SHIP(1) | 1 | | | | |
| SHIP(2) | 1 | | | | |
| SHIP(3) | 1 | | | | |
| DBCC_ADSI(1) | 1 | | | | |
| SJS(1) | 1 | | | | |
| SJS(2) | 1 | | | | |
| AIC(1) | 1 | | | | |
| JRE_AF(1) | 1 | | | | |
| ADCP(1) | 1 | | | | |
| UK_JCabin(1) | 1 | | | | |

AFBX0004B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Time Line – AFBXMD04B/USMC Network 13

Time Line Display Status: CREATED

Net: 1



Total Slots/Frame

Note: Not to scale

AFBX0004B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

NDL File Name Table

Platforms referenced in the below table correspond with specific NDL file names or Network file identification numbers for each respective participant platform.

| Network Platform Name By Service | | File Name/Network Used By Host System |
|---|---------|--|
| Marine Corps | | |
| ADCP | ADCP(1) | ADCP1_13.PF |
| | | |

AFBX0004B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

APPENDIX B – AFBXMD04B/USMC Network 13

SHORT FORM REPORT FOR ADCP (1)

AFBX0004B/USMC Network 13
MARINE CORPS NETWORK DESIGN FACILITY
NETWORK DESCRIPTION

Participant ADCP (1)

| Participant | Block Id. No. | Slot Type | Msg Cat | Total Slots Req'd | Slot Blocks Req'd | Slot Group A=Agg | Slot Group Elem. | Set | Index | RRN | Net | Relay Delay |
|-------------|---------------|-----------|---------|-------------------|-------------------|------------------|------------------|-----|-------|-----|-----|-------------|
| ADCP(1) | 1 | T | 3 | 8 | 8 | 1.1 | 0 | B | 50 | 9 | 0 | 0 |
| | 2 | T | 6 | 1 | 1 | 6.2 | 9 | A | 99 | 6 | 0 | 0 |
| | 3 | T | 7 | 24 | 16 | 25.2 | 2 | A | 28 | 10 | 0 | 0 |
| | 4 | T | 7 | | 8 | 25.4 | 2 | A | 52 | 9 | 0 | 0 |
| | 5 | T | 8 | 4 | 4 | 28.2 | 3 | A | 35 | 8 | 0 | 0 |
| | 6 | T | 9 | 16 | 16 | 32.1 | 0 | B | 15 | 10 | 127 | 0 |
| | 7 | R | 6 | 16 | 16 | 4.1 | 0 | C | 14 | 10 | 0 | 0 |
| | 8 | R | 6 | 28 | 16 | 5.1 | 0 | C | 27 | 10 | 0 | 0 |
| | 9 | R | 6 | | 8 | 5.2 | 0 | C | 62 | 9 | 0 | 0 |
| | 10 | R | 6 | | 4 | 5.3 | 0 | C | 90 | 8 | 0 | 0 |
| | 11 | R | 6 | 12 | 8 | 6.1 | 0 | A | 19 | 9 | 0 | 0 |
| | 12 | R | 6 | | 4 | 6.2 | 0 | A | 99 | 8 | 0 | 0 |
| | 13 | R | 6 | 48 | 16 | 9.1 | 0 | B | 1 | 10 | 1 | 0 |
| | 14 | R | 6 | | 16 | 9.2 | 0 | B | 9 | 10 | 1 | 0 |
| | 15 | R | 6 | | 16 | 9.3 | 0 | B | 21 | 10 | 1 | 0 |
| | 16 | R | 6 | 48 | 16 | 10.1 | 0 | B | 5 | 10 | 0 | 0 |
| | 17 | R | 6 | | 16 | 10.2 | 0 | B | 17 | 10 | 0 | 0 |
| | 18 | R | 6 | | 16 | 10.3 | 0 | B | 25 | 10 | 0 | 0 |
| | 19 | R | 7 | 16 | 16 | 11.1 | 0 | C | 6 | 10 | 0 | 0 |
| | 20 | R | 7 | 8 | 8 | 12.1 | 0 | C | 11 | 9 | 0 | 0 |
| | 21 | R | 7 | 16 | 16 | 13.1 | 0 | B | 10 | 10 | 0 | 0 |
| | 22 | R | 7 | 16 | 16 | 14.1 | 0 | B | 13 | 10 | 0 | 0 |
| | 23 | R | 7 | 8 | 8 | 15.1 | 0 | B | 26 | 9 | 0 | 0 |
| | 24 | R | 7 | 8 | 8 | 16.1 | 0 | B | 29 | 9 | 0 | 0 |
| | 25 | R | 7 | 160 | 32 | 17.1 | 0 | C | 1 | 11 | 0 | 0 |
| | 26 | R | 7 | | 32 | 17.2 | 0 | C | 9 | 11 | 0 | 0 |
| | 27 | R | 7 | | 32 | 17.3 | 0 | C | 5 | 11 | 0 | 0 |
| | 28 | R | 7 | | 32 | 17.4 | 0 | C | 13 | 11 | 0 | 0 |
| | 29 | R | 7 | | 8 | 17.5 | 0 | C | 3 | 9 | 0 | 0 |
| | 30 | R | 7 | | 8 | 17.6 | 0 | C | 35 | 9 | 0 | 0 |
| | 31 | R | 7 | | 8 | 17.7 | 0 | C | 19 | 9 | 0 | 0 |
| | 32 | R | 7 | | 8 | 17.8 | 0 | C | 51 | 9 | 0 | 0 |
| | 33 | R | 7 | 8 | 8 | 18.1 | 0 | B | 55 | 9 | 0 | 0 |
| | 34 | R | 7 | 80 | 64 | 19.1 | 0 | A | 0 | 12 | 0 | 0 |
| | 35 | R | 7 | | 16 | 19.2 | 0 | A | 4 | 10 | 0 | 0 |
| | 36 | R | 7 | 80 | 64 | 20.1 | 0 | A | 2 | 12 | 0 | 0 |
| | 37 | R | 7 | | 16 | 20.2 | 0 | A | 6 | 10 | 0 | 0 |
| | 38 | R | 7 | 64 | 64 | 21.1 | 0 | A | 1 | 12 | 0 | 0 |
| | 39 | R | 7 | 64 | 64 | 22.1 | 0 | A | 5 | 12 | 0 | 0 |

AFBX0004B/USMC Network 13
 MARINE CORPS NETWORK DESIGN FACILITY
 NETWORK DESCRIPTION

Participant ADCP (1) Cont'd

| Participant | Block Id. No. | Slot Type | Msg Cat | Total Slots Req'd | Slot Blocks Req'd | Slot Group A=Agg | Slot Group Elem. | Set | Index | RRN | Net | Relay Delay |
|-------------|---------------|-----------|---------|-------------------|-------------------|------------------|------------------|-----|-------|-----|-----|-------------|
| | 40 | R | 7 | 8 | 8 | 23.1 | 0 | B | 18 | 9 | 0 | 0 |
| | 41 | R | 7 | 8 | 8 | 24.1 | 0 | B | 23 | 9 | 0 | 0 |
| | 42 | R | 7 | 48 | 16 | 25.1 | 0 | A | 12 | 10 | 0 | 0 |
| | 43 | R | 7 | | 16 | 25.2 | 0 | A | 28 | 10 | 0 | 0 |
| | 44 | R | 7 | | 8 | 25.3 | 0 | A | 20 | 9 | 0 | 0 |
| | 45 | R | 7 | | 8 | 25.4 | 0 | A | 52 | 9 | 0 | 0 |
| | 46 | R | 7 | 48 | 16 | 26.1 | 0 | A | 14 | 10 | 0 | 0 |
| | 47 | R | 7 | | 16 | 26.2 | 0 | A | 30 | 10 | 0 | 0 |
| | 48 | R | 7 | | 8 | 26.3 | 0 | A | 22 | 9 | 0 | 0 |
| | 49 | R | 7 | | 8 | 26.4 | 0 | A | 54 | 9 | 0 | 0 |
| | 50 | R | 8 | 20 | 16 | 27.1 | 0 | C | 10 | 10 | 0 | 0 |
| | 51 | R | 8 | | 4 | 27.2 | 0 | C | 26 | 8 | 0 | 0 |
| | 52 | R | 8 | 12 | 8 | 28.1 | 0 | A | 3 | 9 | 0 | 24 |
| | 53 | R | 8 | | 4 | 28.2 | 0 | A | 35 | 8 | 0 | 24 |
| | 54 | R | 8 | 16 | 16 | 30.1 | 0 | B | 2 | 10 | 0 | 15 |
| | 55 | R | 9 | 128 | 128 | 34.1 | 0 | B | 0 | 13 | 127 | 0 |
| | 56 | R | 9 | 64 | 64 | 35.1 | 0 | B | 6 | 12 | 127 | 0 |
| | 57 | R | 14 | 8 | 8 | 40.1 | 0 | A | 51 | 9 | 0 | 0 |
| | 58 | R | 14 | 8 | 8 | 41.1 | 0 | A | 59 | 9 | 0 | 0 |